COLLEGE OF ENGINEERING

DESCRIPTION
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ROLE AND MISSION
The College of Engineering improves the lives of every Nebraskan. We pursue this vision through our shared values of Community, Impact, and Inclusion. These values are embedded in and strengthened by the academic ideals of the university, the ethos of Nebraskans, and the principles of the entire Nebraska Engineering Community.

Our mission is to drive economic development in the state and region while solving problems of global importance. The College of Engineering will fulfill this mission through our deep commitment to engineering, computing and construction education, research, and engagement. As the only engineering college in Nebraska, we have a particularly strong mandate to the state to ensure our resources and opportunities are accessible to all Nebraskans.

An essential and distinctive pillar of our mission is the notion of the Complete Engineer®. At its most fundamental, the Complete Engineer® is a commitment by the college to the development of every student, staff member, and faculty member in technical, professional, and personal dimensions. It enables each individual to become the best version of themselves in support of the fulfillment of the college's mission and reinforces the values of Community, Impact, and Inclusion.

ADMINISTRATIVE STRUCTURE
The College of Engineering is located on three campuses (Lincoln City Campus, Lincoln East Campus, and Scott Campus in Omaha) and has two Dean's Offices, 114 Othmer Hall (OTHM) in Lincoln and 100 Peter Kiewit Institute (PKI) in Omaha. The College is subdivided into units, each under the leadership of a chairperson, department head, or director.

ADMISSION
College Entrance Requirements
Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics - 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English - 4 units
3. Natural sciences - 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management)
4. Foreign language - 2 units of a single foreign language
5. Social studies - 3 units
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry, or physics.

A total of 16 units is required for admission.

Students must have an ACT (enhanced) score of 24 or greater (or equivalent SAT). Students who lack entrance requirements may be admitted based on ACT scores, high school rank and credits, or may be admitted to pre-engineering status. Pre-engineering students are advised within the College of Engineering.

Students for whom English is not their language of nurture must meet the minimum English proficiency requirements of the University.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska-Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Academic and Career Development Center at the University of Nebraska Omaha.

Students should consult their advisor, their department chair, or Engineering Student Services if they have questions on current policies.

Other Admission Requirements
Students who transfer to the University of Nebraska Omaha from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE freshman entrance requirements, have a minimum cumulative GPA of 2.5 and be calculus-ready. Students not meeting all of these requirements must enroll in another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer from which a C or better grade was received. Although University of Nebraska-Lincoln and University of Nebraska Omaha accept D grades from the University of Nebraska Kearney, Omaha, and -Lincoln, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

All transfer students must adopt the curricular requirements of the undergraduate catalog current at the time of transfer to the COE - not that in use when they entered the University of Nebraska Omaha. Upon admission to Nebraska, students wishing to pursue degree programs in the COE will be classified and subject to the policies defined in the subsequent section.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 in order to be readmitted to COE.

ADVISING
Academic Advising
Advisors assigned to students are either part of the Engineering Student Services, located in 107 PKI, or are in the student's major department.

Student Responsibility
Application for the Diploma
Each student who expects to receive a diploma must file an application of candidacy for the diploma on-line on MovLInk. Announcements about deadline dates are posted on the University of Nebraska Omaha's (UNO) Academic Calendar webpage, Maverick Weekly email to students, and by an email sent by the UNO Registrar's office.
It is the responsibility of the students to inform the Registrar’s Office of their graduation plans including their mailing address and the manner in which they are completing their requirements.

Failure to meet these stipulations may necessitate postponement of graduation until the next semester.

ACADEMIC PROGRAMS & POLICIES

Honors Program

Honors Societies

These recognize students who excel in scholarship and give promise of being leaders in professional areas. They are branches of national societies and are generally open upon invitation to juniors and seniors: Alpha Epsilon (agricultural engineering), Chi Epsilon (civil engineering), Eta Kappa Nu (electrical engineering), Pi Tau Sigma (mechanical engineering), Sigma Lambda Chi (construction management), Sigma Xi (scientific, all colleges), Tau Alpha Pi (engineering technology), and Tau Beta Pi (all engineering).

Student Recognition

Graduation with Distinction

GPA requirements for engineering students to graduate with levels of distinction are:

- Distinction: 3.750-3.849
- High Distinction: 3.850-3.949
- Highest Distinction: 3.950-4.000

For engineering students to graduate with Distinction, High Distinction, or Highest Distinction, they must meet the GPA levels listed above, and be approved by a majority vote of the faculty in the department offering their respective academic program.

Student Standing/Classification/Professional Admission

Professional admission to a student’s degree program is a requirement for graduation from that program.

Pre-Professionally Admitted COE Students. These are students who have been admitted to the College of Engineering and are in the process of establishing their academic credentials and confirming their choice of major. Transfer students from other colleges and universities or from the Academic and Career Development Center (ACDC) will be classified as pre-professionally admitted for at least one semester (12 credits) while they confirm their career path and establish their academic credentials (see Professional Admission). Most students are in pre-professionally admitted status for one to four semesters. Pre-professionally admitted students may enroll in upper level engineering courses provided they meet the prerequisites, space is available, and no departmental restrictions exist.

Professionally Admitted COE Students. These students may register in engineering courses where they meet all prerequisites or have permission. A professionally admitted student who wishes to transfer from one COE major to another must re-apply for Professional Admission to gain professionally admitted status in the new major, subject to the admission criteria of the new major.

Students who are enrolled in the Academic and Career Development Center or in other colleges may enroll in any engineering courses for which they have met the prerequisites. Those with greater than a 2.5 cumulative GPA may register in upper-level engineering courses, but only on a space-available basis in courses where they meet all prerequisites and have permission from the department. These students may retake an engineering course for C-, D, and F removal no more than once, on a space-available basis and with permission. They may repeat courses with a previous withdrawal (W) only once.

Professional Admission must be earned by a student in order to move from pre-professionally admitted status to professionally admitted status within the College of Engineering. Review of the student’s academic history is completed by the department of the student’s intended major after the student has completed at least 43 credit hours within his or her intended degree program. Additional review criteria are based on the individual degree program and can be found under that major’s information in the undergraduate catalog.

A student may be reviewed up to two times for Professional Admission in a single major. If the student is rejected for Professional Admission on the second review, the student will not be allowed to continue in that major. The student may choose to pursue a new College of Engineering major, but will be subject to the review criteria of the new major. If the student is rejected for Professional Admission by the new major, the student will be dismissed from the College of Engineering. Further reviews for Professional Admission will not be allowed and the student will no longer be eligible to enroll in College of Engineering courses.

College Probation. A student who receives a cumulative grade point average (GPA) of less than 2.4 will be placed on college probation. The student will remain on probation until a semester is completed with a cumulative GPA at or above 2.4. Any student with three sequential semesters on college probation will be dismissed from the College of Engineering.

The first semester of probation is defined as the semester in which failure to meet a cumulative or semester GPA threshold, a course failure or withdrawal, or a code of conduct violation occurs.

Completion of the following semester (12 credits) with a semester GPA above 2.4 is required for a student to be removed from the college probation. Students may be placed on college probation (or dismissed) for violation of the UNO Student Code of Conduct at any time. A student cannot graduate from the College of Engineering while on college probation.

College Dismissal. A student will be dismissed from the College of Engineering at the end of any semester in which:

- The student has been placed on college probation for three sequential semesters.
- The student is dismissed by UNO.

Students may also be dismissed for violating the University of Nebraska Omaha Student Code of Conduct at any time. College dismissal will cause an administrative change in the student’s matriculation to the Academic and Career Development Center or to a college indicated by the student. Students who have been dismissed from the College of Engineering may be readmitted (one time only) provided they have removed all academic deficiencies that led to dismissal.

General College Policies

These policies are applicable to all students in the College of Engineering.

- Student priority for entrance into classes for which demand exceeds available class space will be based on cumulative GPA. This priority will be applied at the end of early registration (when applicable).
- Students may withdraw from a maximum of four engineering courses. Students may withdraw from any one engineering course a maximum of one time.
- Students may repeat a maximum of three engineering courses. Students may complete any one engineering course a maximum of two times.
- All students must have a College of Engineering advisor’s, chairperson’s or dean’s signature on all worksheets, enrollment and drop-add forms. Any subsequent changes on these forms, or in enrollment from those courses previously approved, must also be approved by an advisor, chairperson or dean.
• At least 30 of the last 36 credits needed for a degree must be registered for and completed at UNO or UNL while identified with the College of Engineering. This means that, practically speaking, the last year of a student’s work must be spent in residence. Credit earned during education abroad may be used toward degree requirements if students participate in prior approved programs and register through the University of Nebraska Omaha (see https://www.unomaha.edu/international-studies-and-programs/study-abroad/index.php (https://www.unomaha.edu/international-studies-and-programs/study-abroad/)).

• Effective with the Fall semester 2011, students entering a baccalaureate program in the College of Engineering on the Omaha campus must satisfy the Achievement Centered Education (ACE) requirements of the University of Nebraska-Lincoln as part of their degree requirements.

• Credit/No Credit courses: Students in the College of Engineering must take ENGR 100 Freshman Engineering Seminar, ENGR 200 Sophomore Engineering Seminar, and ENGR 4000 Professional Ethics and Social Responsibilities with the grading option Credit/No Credit. In addition, students may take up to 12 credit hours of courses utilized for ACE 5, 6, 7, 8, or 9 on a Credit/No Credit basis, unless specified otherwise by the degree program. Students in the College of Engineering may not take any other required courses or technical elective courses with the grading option Credit/No Credit.

• Credits for “Intensive English Program” at UNL and “English as a Second Language” at UNO are not applicable to degree programs in the College of Engineering.

• Students who enroll at UNL, UNO, or UNK under the academic year (Fall, Spring, Summer) of this catalog must fulfill the requirements stated in this University of Nebraska Omaha catalog or in any other University catalog which is published while they are enrolled in the College, provided that the catalog is no more than 10 years old at the time of graduation. A student must, however, meet the graduation requirements from one catalog only. A student may not choose a portion from one catalog and the remainder from another catalog.

• Subject to space availability, any student with a cumulative GPA less than 2.40 may enroll in AREN 1010, CNST 1310, CIVE 112, CONE 1030 and ECEN 2250 providing they have permission from the College of Engineering and their enrollment does not violate course repeat policies of the College of Engineering. Similarly, students who have College of Engineering permission, do not violate College of Engineering course repeat policies, have the appropriate course prerequisites and whose cumulative GPA is above 2.0 may enroll in, MECH 2200, MECH 3240, and ENGR 3000.

Regulations

The college and its various divisions and departments reserve the right to change the rules governing admission to, instruction in, and graduation from the college or its various divisions. Such regulations are operative whenever the college authorities deem necessary and apply not only to prospective students but also to those currently enrolled in the college. The college also reserves the right to withdraw courses and to reassign instructors.

Prerequisites for courses offered in the college are effective even if they are not listed in the schedule. A maximum amount of credit that a student may enroll in during any semester is 18 credit hours without the Dean’s permission to override the maximum.

Undergraduate Seminars. Freshmen engineering students are required to attend ENGR 100, a 0 credit course. The Freshman Engineering Seminar provides information on engineering disciplines, resources and tools available to students at the University of Nebraska Omaha, and opportunities to meet engineering faculty members. Sophomore engineering students are required to attend ENGR 200, a 0 credit course. The Sophomore Engineering Seminar provides information on

career planning, interviewing, resumé preparation, and coop/internship opportunities.

Design Requirement. All engineering majors require a minimum of 48 credit hours of engineering topics (engineering topics include subjects in the engineering sciences or engineering design). Engineering design is the process of devising a system, component, or process to meet desired needs. Engineering design work may be done by individual; however, team efforts are encouraged where appropriate. Engineering majors are provided an integrated engineering design experience throughout the curriculum. In addition, all engineering programs include a meaningful major design experience that builds upon the fundamental concepts of mathematics, basic sciences, humanities, social sciences, engineering topics, and communication skills.

CATALOG TO USE

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted into the College of Engineering. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at Nebraska in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

COLLEGE DEGREE REQUIREMENTS

Appeals

Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to his/her instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal his/her case through the College Academic Appeals Committee on his/her campus.

Academic Amnesty and Appeals

The following policies shall apply for academic amnesty, appeals of course grades, and appeals of academic suspension.

Academic Amnesty

A student may remove one or more full semesters of work from degree consideration by applying to the Office of the Dean after either completing a minimum of 15 simultaneous or sequential credit hours with at least a 3.0 grade point average or 30 hours with at least a 2.5 grade point average at the University of Nebraska Omaha following the semester(s) the student wishes to remove. The application will be forwarded to the campus College Academic Appeals Committee for review and approval, if appropriate.

Appeals of Academic Suspension

Appeals of academic suspension must be filed in writing with the Office of the Dean within 21 days after official electronic notification/posting of the grades by the Registrar for the semester at the end of which the suspension was invoked. Suspended students who have filed a notice of appeal may apply to the Office of the Dean for a temporary release from suspension pending the final disposition of their appeal by the Academic Appeals Committee of the College of Engineering.

DEGREES & MAJORS

Engineering

To meet the need for innovative engineers, the College’s programs offer broad education in the physical sciences, social sciences, mathematics, information sciences, and humanities. This education is complemented by study of engineering methods of modeling, analysis, synthesis, and design in students’ areas of specialization. In addition to preparing students for careers in engineering, the College’s bachelor’s degree programs provide excellent preparation for graduate study in those fields.
Construction Management

This profession is allied with architecture, engineering, and business. Construction managers coordinate people, machines, and materials to produce (within the constraints of budget and time) buildings, highways, bridges, dams, and other structures essential to modern society. The College’s construction management program provides a solid technical background, develops business knowledge and considers ethical issues of the profession.

Undergraduate Programs

Engineering. The College offers bachelor of science degree programs in each of the following engineering fields: agricultural engineering (Lincoln only), architectural engineering (Omaha only), biological systems engineering (Lincoln only), chemical engineering (Lincoln only), civil engineering, computer engineering, construction engineering, electrical engineering, mechanical engineering (Lincoln only), and software engineering (Lincoln only). Over 85 percent of all the engineering degrees granted in the United States during the last five years were granted in these fields. Students with interests in specialty fields such as aerospace, environmental, or biomedical engineering should seek advice in the Engineering Student Services Center on how to incorporate such emphases into the above degree programs.

Construction Management. The College offers a bachelor of science degree program in construction management.

Dual Degrees. Students can major in two departments in the college by consulting their advisors (one from each department) and completing all the requirements for the departmental majors.

ACCREDITATION

The agricultural, biological systems, chemical engineering, civil engineering (Lincoln and Omaha), computer engineering (Lincoln and Omaha), construction engineering (Lincoln and Omaha), electrical engineering (Lincoln and Omaha), and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org.

The construction management program (Lincoln and Omaha) is accredited by the American Council for Construction Education and the Applied and Natural Science Accreditation Commission (ANSAC) of ABET.

MINORS & AREAS OF SPECIALIZATION

OFFERED

College faculty encourage students to minor in a discipline outside the College of Engineering to further develop critical thinking skills, curiosity, understanding of the connections between engineering and the social or natural sciences and fine arts, and sensitivity to ethical issues.

Policies

1. A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
2. A student’s minor program(s) must be reviewed by an advisor prior to the submission of the senior check to the department chair or head. It is the responsibility of the student to determine that all requirements for the minor are met.
3. The minor(s) must be approved by the cognizant program offering the minor(s).
4. Departments may restrict students in the major(s) from obtaining certain minor(s) at their discretion; see the catalog entry for individual majors for details.

OTHER

Dean’s List

The College recognizes students for academic achievement during the fall and spring semesters by placement on the College Dean’s List. To qualify for the College of Engineering Dean’s List, students must complete 12 credit hours of graded coursework (courses must be started and completed in one semester) by the census date of the grade reports and attain a minimum semester grade point average of 3.500. The following do not qualify as part of the 12 credit hours: Credit/No Credit credit, transfer hours, removals of incompletes, and grade changes submitted after the census grade reports.

Professional Licensure

The college encourages professional licensure. The majority of the College’s engineering seniors take the Fundamentals of Engineering (FE) examination prior to graduation. This examination is administered by the Nebraska Board of Engineers and Architects, a state agency, and the first step in the process of becoming a licensed professional engineer. To become a licensed professional engineer, one must pass the FE exam, have four years of experience, and pass a professional practice examination. Students may take the FE exam in the last semester of their baccalaureate program.

Practical Training

For a student who anticipates pursuing a career as a practicing engineer, it is strongly recommended that the student engage in an internship or equivalent practical training experience.

Scholarships and Financial Aid

Each year the College offers scholarships to freshmen and upperclassmen worth more than $750,000. Scholarship awards are made possible through generous gifts of alumni and friends, as well as local and national organizations. Contact the Office of the Dean or the Office of Scholarships and Financial Aid for information regarding these awards and for other financial assistance.

Application for the University of Nebraska Omaha freshmen scholarships automatically makes you eligible for College of Engineering scholarships, as well as other university awards such as the Regents scholarships. You must submit the UNO application form (due January 15, prior to the beginning of the next academic year) to be eligible.

A significant number of entering students have academic records that qualify them for university-wide scholarship awards. Each year, about 25 percent of the freshman Regent Scholarship recipients are engineering students.

A large number of students are able to find part-time employment in fields related to their interests.

Technical Societies

The technical student societies help develop a greater personal and professional interest and understanding in engineering, computer science, and construction management. Student branches of the major national technical and scientific societies are sponsored by the academic programs and departments.

Scott Campus (Omaha). Acoustical Society of America; American Society of Heating, Refrigeration and Air-conditioning Engineers; Architectural Engineering Institute; Architectural Engineering Student Leadership and Advisory Committee; Associated General Contractors of America; Earthquake Engineering Research Institute; Emerging Green Builders; Illuminating Engineering Society of North America; Mechanical Electrical Specialty Contractors; National Association of Home Builders Student Chapter; American Society of Civil Engineers; American Water Works Association/Water Environment Federation; Engineers Without Borders; Institute for Transportation Engineers; Structural Engineering Association of Nebraska; and Institute of Electrical & Electronics Engineers.

Life-Long Learning

The education of professionals in engineering and construction management is a continuing process. The groundwork in both technical and nontechnical studies is laid while in college, but education continues after graduation. For a professional, education will continue not only in the
technical areas but in areas that relate to human and social concerns. A professional may expect to take a leadership role in the community and must have a broad awareness of human and social accomplishments, needs, values, and a willingness to take the responsibility for meeting these needs. For these reasons, an integrated program of coursework in the humanities and social sciences is part of the educational requirements.

**College Entrance Requirements**

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics - 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English - 4 units
3. Natural sciences - 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management)
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**College of Engineering Programs**

**Engineering**

**Architectural Engineering**

- B.S. Degree Program ([http://catalog.unomaha.edu/undergraduate/college-engineering/bs-architectural-engineering/](http://catalog.unomaha.edu/undergraduate/college-engineering/bs-architectural-engineering/))

**Civil Engineering**

- B.S. Degree Program ([http://catalog.unomaha.edu/undergraduate/college-engineering/civil-engineering-bs/](http://catalog.unomaha.edu/undergraduate/college-engineering/civil-engineering-bs/))

**Computer Engineering**

- B.S. Degree Program ([http://catalog.unomaha.edu/undergraduate/college-engineering/electrical-computer-engineering/computer-engineering-bs/](http://catalog.unomaha.edu/undergraduate/college-engineering/electrical-computer-engineering/computer-engineering-bs/))

**Construction Engineering**

- B.S. Degree Program ([http://catalog.unomaha.edu/undergraduate/college-engineering/construction/construction-engineering-bs/](http://catalog.unomaha.edu/undergraduate/college-engineering/construction/construction-engineering-bs/))

**Construction Management**

- B.S. Degree Program ([https://catalog.unomaha.edu/undergraduate/college-engineering/construction/construction-management-bs/](https://catalog.unomaha.edu/undergraduate/college-engineering/construction/construction-management-bs/))

**Electrical Engineering**

- B.S. Degree Program ([http://catalog.unomaha.edu/undergraduate/college-engineering/electrical-computer-engineering/electrical-engineering-bs/](http://catalog.unomaha.edu/undergraduate/college-engineering/electrical-computer-engineering/electrical-engineering-bs/))

**First two years of:**

- Agricultural Engineering ([http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-agricultural-engineering/](http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-agricultural-engineering/))
- Biological Systems Engineering ([http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-biological-systems-engineering/](http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-biological-systems-engineering/))
- Mechanical Engineering ([http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-mechanical-engineering/](http://catalog.unomaha.edu/undergraduate/college-engineering/pre-engineering/pre-mechanical-engineering/))

**Graduate Programs**

A variety of graduate programs in engineering and construction management are available. For details on programs leading to masters and doctorate degrees, including the application process, individuals should contact the appropriate department or office of the dean in the College of Engineering. Application forms are available at [http://www.unl.edu/gradstudies/](http://www.unl.edu/gradstudies/).

**Minors & Areas of Specializations Offered**

College faculty encourage students to minor in a discipline outside the College of Engineering to further develop critical thinking skills, curiosity, understanding of the connections between engineering and the social or natural sciences and fine arts, and sensitivity to ethical issues.

**Policies**

1. A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
2. A student’s minor program(s) must be reviewed by an advisor prior to the submission of the senior check to the department chair or head. It is the responsibility of the student to determine that all requirements for the minor are met.

3. The minor(s) must be approved by the cognizant program offering the minor(s).

4. Departments may restrict students in their major(s) from obtaining certain minor(s) at their discretion; see the catalog entry for individual majors for details.