Program Specifics:

Students must have a minimum undergraduate GPA of 3.0, with the exception of Computer Science, which requires a minimum undergraduate GPA of 3.5. Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.

• Students will work with their undergraduate advisor to register for the graduate courses.
• A minimum cumulative GPA of 3.0 in graduate coursework is required to remain in good standing.
• Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
• Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived, and the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  • Admission to Fast Track does NOT guarantee admission to the graduate program.
  • For all CIST degrees, if a student successfully completes their undergraduate BS degree with a cumulative GPA of 3.0 (3.5 for computer science) and all graduate courses with a 3.0 or better, you may be recommended for admission to the graduate program.
• The admit term must be after the completion term of the undergraduate degree.

Admissions

General Application Requirements and Admission Criteria (http://catalog.unomaha.edu/graduate/admission/)

Program-Specific Requirements

Application Deadlines (Spring 2022, Summer 2022, and Fall 2022)
• Fall: July 1
• Spring: December 1
• Summer: April 1

Other Requirements

• The minimum undergraduate grade point average (GPA) requirement for the MS in IT Innovation program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
• English Language Proficiency: Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., OR a baccalaureate or other advanced degree from a predetermined country on the waiver list (https://www.unomaha.edu/graduate-studies/prospective-students/Proof%20of%20English%20Proficiency-%20International.pdf), must meet the minimum language proficiency score requirement in order to be considered for admission.
• Writing Sample: Applicants are required to submit a writing sample about the most innovative thing that you have developed. This should be a two page double-spaced word processed essay that demonstrates your potential for success in the graduate program and distinguishes you from other applicants to our graduate program.
• Resume: Submit a detailed resume indicating your work experience and background.
• OPTIONAL: One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
• Applicants with International Transcripts: Any applicant to this program who has completed undergraduate or graduate coursework at an international higher education institution outside of the United States may submit transcripts and degree certificates (with an English translation) in lieu of a course-by-course transcript evaluation from World Education Services (https://www.wes.org/) (WES), Educational Credential Evaluators (https://www.ece.org/) (ECE), or Educational Perspectives (https://
**Degree Requirements**

**Foundation Courses**

Foundation courses ensure that all students in the IT Innovation program have a strong foundation on which to build the rest of the program.

Foundation courses cannot be used to satisfy the 36 semester hours required for the MS in IT Innovation degree. Students who have not completed all the foundation course requirements may be admitted on provisional status until those requirements have satisfactorily been completed. All must be completed prior to or concurrent with the first six hours of MS in IT Innovation graduate course work.

Foundation Courses include:

- Six credit hours of programming & development courses, examples include: Java, C, C++, C#, Unity, PHP, Python, R, or comparable language.
- Three credit hours of system analysis & design courses, examples include: ITIN 4440 Agile Development, ISQA 8040 Overview Systems Analysis & Design, or ISQA 8220 Advanced Systems Analysis & Design.

**Electives**

Approved Electives: The majority of coursework in any graduate plan of study must consist of graduate-only level classes ending in 8xx. A maximum of five 8xx courses is allowed, so electives should be selected with this in mind.

Students will select a cognate of four related electives with approval from their faculty advisor by the end of their second semester in the program.

**Select Capstone or Thesis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITIN 8940</td>
<td>ITIN CAPSTONE I</td>
<td>3</td>
</tr>
<tr>
<td>ITIN 8950</td>
<td>ITIN CAPSTONE II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ITIN 8990</td>
<td>3</td>
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</tbody>
</table>

**Total Credits**

- **Electives (9 credits)**
- **Select Capstone or Thesis (6 credits)**
- **Total Credits (36 credits)**

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**Exit Requirements**

Complete the Capstone requirement (ITIN 8940 and ITIN 8950) or the thesis option ITIN 8990.

All candidates completing the thesis option, should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms, and final approval and submission of the thesis.

**Quality of Work Standards**

The Graduate College’s Quality of Work standards shall be applied to foundation courses as well as courses taken as part of the degree program. In particular, the GPC will recommend to the Graduate College that any

1. Student receiving a grade of “C-” or below in any foundation courses will be automatically dismissed from the program or, in the case of unclassified or non-degree students, automatically denied admission.
2. Student receiving a grade of “C+” or “C” in any foundation course will be placed on probation or dismissed from the program.
3. Student not maintaining a “B” (3.0 on 4.0 scale) average in foundation courses will be placed on probation or dismissed from the program.

**ITIN 8000 TECHNOLOGY & INNOVATION-STATE OF THE ART (3 credits)**

ITIN 8000 provides a regular forum for IT Innovation graduate students, where the latest developments in the field of IT Innovation are introduced and discussed. The course also functions as a central communication and collaboration hub for graduate students in IT Innovation. Participation is required.

**Prerequisite(s)/Corequisite(s):** Students in the MS in IT Innovation program may register. Not open to non-degree graduate students.

**ITIN 8006 SPECIAL TOPICS IN IT INNOVATION (1-6 credits)**

This course is designed to acquaint students with issues which are current to the field or emerging trends in the IT Innovation area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once. (Cross-listed with ITIN 4000).

**Prerequisite(s)/Corequisite(s):** Instructor permission

**ITIN 8100 INTERMEDIA (3 credits)**

This is an ongoing course that brings together students of the arts and students of scientific disciplines in order to facilitate and promote the creation of multimedia art, and to further explore shared resources, joint research, and exhibition/performance opportunities.

**Prerequisite(s)/Corequisite(s):** Instructor permission

**ITIN 8210 DESIGN SCIENCE AND THEORY DEVELOPMENT (3 credits)**

The purpose of this course is to help students understand theory, theoretical contributions, and design science. Students will approach such questions as: What is a theory? What makes a good theory? Why are theories just theories and not laws? What is not a theory? Following this introduction, we explore design science as a research methodology and Information Technology design theories. Ultimately, students create their own new studies around some design concept.

**Prerequisite(s)/Corequisite(s):** Graduate standing / permission of the instructor

**ITIN 8220 DESIGN PROCESS (3 credits)**

Inter-disciplinary design teams will work together to design and innovate products of the future. The design projects in the course are developed to directly address a problem brought forward by a technology company in the Omaha area in order to provide students with a design experience that directly impacts real-world product development. Students will focus on the technological (interface), physical (ergonomics) and aesthetic quality of design, and will learn how to conduct rigorous user studies in a laboratory setting. Teams will be cross disciplinary and consider all aspects of the design, creation, testing, and fabrication of the products.
ITIN 8256 INNOVATION VENTURES (3 credits)
This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation, both as an instrument for new venture formation and as a core capability for addressing challenges in competitive landscapes. As such, the course lies at the intersection of innovation, entrepreneurship and strategy. Students will develop practical experience by experimenting with and refining business ideas. (Cross-listed with BSAD 8726, ENTR 4720, ITIN 4720, MGMT 4720, MKT 4720).
Prerequisite(s)/Corequisite(s): Admission to a graduate program or instructor permission.

ITIN 8266 USER EXPERIENCE DESIGN (3 credits)
User experience (UX) design is concerned with the application of user-centered design principles to the creation of computer interfaces ranging from traditional desktop and web-based applications, mobile and embedded interfaces, and ubiquitous computing. This course provides in-depth, hands-on experience with real world application of the iterative user-centered process including contextual inquiry, task analysis, design ideation, rapid prototyping, interface evaluation, and reporting usability findings. (Cross-listed with CSCI 4260, CSCI 8266, ITIN 4260).

ITIN 8300 RESEARCH FOUNDATIONS (3 credits)
This course serves as an introduction to research literature and research methodology in the innovation and creativity research domain. Students are introduced to skills, methodological issues, and bibliographic resources to enhance their ability in critically evaluating and conducting research in the IT Innovation field. Through a series of readings, in-class discussions, and lectures the student will select and define a research question, explore the various types of research designs and complete a literature review. This course is structured to make research meaningful and significant and enable students to write effectively.
Prerequisite(s)/Corequisite(s): CIST 2500 or equivalent

ITIN 8900 INDEPENDENT STUDIES (1-3 credits)
A variable credit course for the graduate student who will benefit from independent reading assignments and research type problems. Independent study makes available courses of study not available in scheduled course offerings. The student wishing to take an independent study course should find a faculty member willing to supervise the course and then submit, for approval, a written proposal (including amount of credit) to the IT Innovation Graduate Program Committee Chair at least three weeks prior to registration.
Prerequisite(s)/Corequisite(s): Written permission required

ITIN 8940 ITIN CAPSTONE I (3 credits)
The purpose of the Information Technology Innovation (ITIN) capstone courses is for ITIN majors to explore, identify, evaluate, design, construct and implement a new innovative product that leverages information technology and includes an interdisciplinary field of study. The capstone is the culmination product of the specific various disciplines a student has selected as the unique combination for his or her degree. This course serves as part one of the capstone project for the ITIN Masters degree. The two courses for the ITIN capstone project are intended to be completed in two consecutive semesters (Fall/Spring).
Prerequisite(s)/Corequisite(s): Must be pursuing ITIN MS degree and have completed: two sections of ITIN 8000, ITIN 8220, 8300, and 3 hours of upper division courses in interdisciplinary area identified in the student’s course plan. Not open to non-degree graduate students.