COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY

ELECTRICAL ENGINEERING

Other Catalog Change  CEET20.21.04.01 Online Catalog Link Undergraduate Catalog

Admission
↓
Curriculum
↓
Additional Requirements
↓
Electrical Engineering (ELE)
↓
Accelerated B.S./M.S. Sequence

This accelerated sequence leads to both the B.S. and M.S. degrees in electrical engineering and is open to all undergraduate electrical engineering majors who finished at least 90 semester hours of undergraduate course work with a minimum GPA of 3.00. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. degree only, but only after all the requirements for that degree have been met.

The department also offers an accelerated B.S./M.S. sequence that leads to a M.S. in Electrical Engineering after students received a B.S. either in Electrical Engineering, Biomedical Engineering, or Mechatronics Engineering. This accelerated sequence is open to all undergraduate electrical engineering, biomedical engineering, and mechatronics engineering majors who have finished at least 90 semester hours of undergraduate course work with a minimum GPA of 3.00. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. only, but only after the requirements for that degree have been met.

Other Catalog Change  CEET20.21.04.02 Online Catalog Link Undergraduate Catalog

Accelerated B.S./M.S. Sequence
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Accelerated B.S. Biomedical Engineering /M.S. Electrical Engineering
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Accelerated B.S. Mechatronics Engineering /M.S. Electrical Engineering

This accelerated sequence leads to the B.S. in Mechatronics engineering and M.S. degree in electrical engineering and is open to all undergraduate Mechatronics engineering majors who finished at least 90 semester hours of undergraduate course work with a minimum GPA of 3.00. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. degree only, but only after all the requirements for that degree have been met. With this program, M.S. courses can be taken three semesters prior to earning the B.S. degree and have up to 18 semester hours count
towards both the M.S. and B.S. degrees. A GRE is not required. Students must meet Graduate School application deadlines. Interested students should talk with an adviser as early as possible and are encouraged to apply during the spring semester of their junior year. Students wishing to take part in this program should be aware of all the regulations and restrictions of accelerated baccalaureate/master's degree programs as outlined in the NIU Graduate School Catalog under the heading of Early Admission of NIU Undergraduates; and Admission to Accelerated Baccalaureate/Master's Degree Programs. All students enrolled in this sequence must have their schedule approved by their faculty adviser each semester. Any deviation from an approved course schedule may delay graduation.

Other Catalog Change CEET20.21.04.03

Electrical Engineering (ELE)

Mission

The mission of the Department of Electrical Engineering is to join the university in its commitment to the transmission, expansion, and application of knowledge through teaching, research, and public service. In this commitment, the department features close interaction with area industries and fosters an ongoing exchange of ideas to benefit its students, alumni, and the community at large.

Vision and Mission

The Department of Electrical Engineering supports the University and College visions by aspiring to be an innovative leader in the advancement of electrical engineering principles and practices.

The mission of the Department of Electrical Engineering is to provide exemplary education, conduct research, and perform outreach to benefit industry, government, and the community at large.

Electrical Engineering Program Educational Objectives

As individuals or as members of teams, our graduates will have:

A solid background in mathematics, science, and engineering fundamentals that make it possible to acquire and use contemporary knowledge and tools to practice electrical engineering, in a professional and ethical way, as well as to succeed in graduate education.

The ability to develop problem-solving skills to design and build systems and to communicate, orally and in writing, with others from inside and outside the profession.

Northern Illinois University electrical engineering baccalaureate graduates are trained to begin professional careers that apply a broad base of engineering, science, and communication skills. Graduates demonstrate these skills by:

1. Utilizing concepts learned in electrical engineering in a professional field through
   • Employment in a related field
• Pursuing advanced studies
• Adapting to changes in the profession through embracing life-long learning

2. Contributing to the profession through
• Continued involvement in activities that advance the profession
• Participating in entrepreneurial endeavors
• Using their skills ethically for the benefit of society

3. Displaying excellent interpersonal skills through
• Effectively communicating ideas orally and in writing within and outside the profession
• Embracing diversity and different points of view
• Effectively participating in dynamic teams

Realizing the importance of satisfying customers and their needs

INDUSTRIAL AND SYSTEMS ENGINEERING

Industrial and Systems Engineering (ISYE)
↓
Industrial and Systems (B.S.)
↓
Accelerated B.S./M.S. Sequence
↓
Minor
↓
Certificate of Undergraduate Study
↓
Accelerated Integrated Degree

Accelerated B.S. Industrial and Systems Engineering/M.S. Industrial and Systems Engineering
↓
Accelerated B.S. Biomedical Engineering/M.S. Industrial and Systems Engineering

This plan is open to all biomedical engineering majors who have finished at least 90 semester hours of undergraduate work and who have a cumulative GPA of at least 3.00. To enter the accelerated sequence, a student must obtain early admission to the NIU Graduate School, and formulate a detailed plan of study, working closely with a faculty adviser. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. degree only, but only after all the requirements for that degree have been met.

Students can enroll no more than three terms in the accelerated program without completing the baccalaureate degree. Up to 18 semester hours of graduate credit may be applied towards the
baccalaureate degree with the approval of the department.

Students wishing to take part in this program should be aware of all the regulations and restrictions of accelerated baccalaureate/master’s degree programs as outlined in the NIU Graduate School Catalog under the heading of Early Admission of NIU Undergraduates; and Admission to Accelerated Baccalaureate/Master’s Degree Programs.

All students enrolled in this sequence must have their schedule approved by their faculty adviser each semester. Any deviation from an approved course schedule may delay graduation.

Accelerated B.S. Mechatronics Engineering/M.S. Industrial and Systems Engineering

This plan is open to all mechatronics engineering majors who have finished at least 90 semester hours of undergraduate work and who have a cumulative GPA of at least 3.00. To enter the accelerated sequence, a student must obtain early admission to the NIU Graduate School, and formulate a detailed plan of study, working closely with a faculty adviser. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. degree only, but only after all the requirements for that degree have been met.

Students can enroll no more than three terms in the accelerated program without completing the baccalaureate degree. Up to 18 semester hours of graduate credit may be applied towards the baccalaureate degree with the approval of the department.

Students wishing to take part in this program should be aware of all the regulations and restrictions of accelerated baccalaureate/master’s degree programs as outlined in the NIU Graduate School Catalog under the heading of Early Admission of NIU Undergraduates; and Admission to Accelerated Baccalaureate/Master’s Degree Programs.

All students enrolled in this sequence must have their schedule approved by their faculty adviser each semester. Any deviation from an approved course schedule may delay graduation.

COLLEGE OF HEALTH AND HUMAN SCIENCES

SCHOOL OF FAMILY AND CONSUMER SCIENCES

Other Catalog Change   CHHS20.21.14.01   LINK 2021-2022 Undergraduate Catalog

Family and Consumer Sciences (FACS, FSMD, GERo, HDFS, HOSP)
↓
Hospitality and Tourism Management (B.S.)
↓
Special Requirements
Students must obtain ServSafe Food Protection Manager Certification, certification in first aid, cardiac pulmonary resuscitation (CPR), and verification of two-step tuberculin (TB) test. These Clinical requirements (HERE) must be completed prior to enrolling in HOSP 320. Students must earn a grade of C or better in FACS prerequisite courses before they can enroll in any successive FACS course to meet the requirements for the hospitality and tourism management major.

Liability insurance for internships is provided through a course fee.

RATIONALE: Clinical Requirements have been moved to the Schools website for easier editing and navigation for the students.

SCHOOL OF HEALTH STUDIES

Medical Laboratory Sciences

General Information

Admission to the major in medical laboratory sciences is limited. See “Limited Admissions and Limited Retention Requirements” in the front part of this catalog.

The medical laboratory sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. To become certified as a medical laboratory scientist (MLS), the graduate of the program must be examined for professional competence by the Board of Certification. Completion of the examination, however, is not a prerequisite for the B.S. degree. Students must be admitted into the medical laboratory sciences program to enroll in 300- and 400- level AHLS courses. Students must maintain a grade of C or better in all AHLS designated courses in the MLS program, except for AHLS 476, or be subject to dismissal from the program.

A student also may be dismissed from the program for unprofessional behavior or for actions that threaten the health and/or safety of patients. All general education courses must be completed before beginning the clinical courses in the hospital.

The medical laboratory science clinical practicum courses include topics in hematology, hemostasis, urinalysis, body fluids, medical microbiology, medical diagnostic biochemistry, medical immunology and immunohematology. Clinical placements at affiliated hospitals require the student to meet all clinical requirements (HERE) found provide and incur cost for the following:

- completion of a 3-dose series of Hepatitis B immunization if needed followed by Hepatitis B blood titer. The series should begin as soon as the new transfer student is accepted into the medical laboratory sciences major or before students at NIU enroll in AHLS 211, Introduction to the Medical Laboratory Sciences;
- criminal background check;
- AMA cardiopulmonary resuscitation (CPR) certification;
- 10 panel drug screen;
- quantitative blood titers for Hepatitis B, Rubella, Rubeola, Mumps, Varicella zoster;
SECTION A – Recorded for inclusion in the 2021-22 Undergraduate Catalog

- two-step TB skin test or Quantiferon Gold blood test;
- Tdap immunization;
- transportation and room/board for practicum courses.

Before enrolling in AHLS 486 and AHLS 487 students must have completed all other university and program requirements for graduation. Medical laboratory science degree completion (ADC) students enrolling in AHLS 488 must be in the process of completing all university requirements.

RATIONALE:
Clinical Requirements have been moved to the Schools website for easier editing and navigation for the students.

Other Catalog Change    CHHS20.21.14.03    LINK 2021-2022 Undergraduate Catalog
Health Studies (AHLS, HLTH, NUTR, PHHE)
↓
Nutrition, Dietetics and Wellness (B.S.)
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Special Requirements

Students must obtain the ServSafe Food Protection Manager Certification and meet current Illinois Department of Public Health requirements for foodservice managers’ sanitation certificate and certification in first aid, cardiac pulmonary resuscitation (CPR), and non-reactive 2-step tuberculin (TB) test. Prior to enrolling in HOSP 320 students must meet the clinical requirements (HERE). Students must earn a grade of C or better in NUTR prerequisite courses before they can enroll in any successive NUTR course to meet the requirements for a nutrition, dietetics, and wellness major. Liability insurance for internship courses is provided through a course fee.

Completion of the Dietetics area of study satisfies the academic requirements of the Didactic Program in Dietetics (DPD) of the Academy of Nutrition and Dietetics (the Academy). The program is accredited by the Accreditation Council for Education of Nutrition and Dietetics (ACEND). Students seeking verification of DPD completion must maintain a grade point average (GPA) of at least 3.00 in DPD program courses (see adviser) and have a cumulative GPA of at least 2.75. In addition, these students must achieve a grade of B or better in the following DPD courses: NUTR 310, NUTR 415 and NUTR 416. DPD verification is a prerequisite to securing placement in an ACEND-accredited dietetic internship program. Students are also strongly recommended to acquire work experience in patient care and food service to enhance eligibility for the dietetic internship program.

The major GPA will be calculated using requirements inside and outside of the school.

RATIONALE:
Clinical Requirements have been moved to the Schools website for easier editing and navigation for the
SCHOOL OF NURSING

Other Catalog Change  CHHS20.21.14.04  LINK 2021-2022 Undergraduate Catalog
Nursing (NURS)
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Nursing Program
↓
Clinical Requirements

All students are admitted to the nursing program provisionally until they meet the clinical requirements (HERE).

Clinical requirements include documentation of immunizations/immunity, criminal background checks, drug screening, Standard Precautions/Universal Precautions training, CPR Healthcare Provider certification, and health insurance. Professional Liability Insurance is provided as part of student fees.

Students are required to undergo criminal background checks and drug screenings and are evaluated for a disqualifying criminal offense under Illinois regulations for health care workers. A student with a disqualifying offense will be unable to complete the program. Those who commit a crime while enrolled in the nursing program may be unable to complete the program.

Students with a positive drug screen for illegal or unauthorized drugs may be unable to complete the program.

All clinical requirements are to be maintained throughout the nursing program as outlined in the Undergraduate Nursing Student Handbook.

RATIONALE: Clinical Requirements have been moved to the Schools website for easier editing and navigation for the students.