Electrical Engineering
Master of Engineering

The Department of Electrical Engineering offers graduate programs leading to either a Master of Science (M.S.) or a Master of Engineering (M.Engr.) degree. The M.Engr. degree is an engineering practice-oriented degree that requires the completion of an engineering design project.

The Department of Electrical Engineering maintains strong research emphases in aerospace payload and sensor development, applied electromagnetics, biomedical signal and image processing, control systems and robotics, embedded systems, renewable energy systems, systems engineering, and wireless communications. Additionally, the department participates in the school-wide Ph.D. in Engineering program. The research programs, laboratory facilities, close student-faculty interaction, and strong mentoring and academic advising facilitate an environment of scholarly activity and prepare students for corporate and government positions in research and development.

The mission of the Department of Electrical Engineering Master of Engineering program is to promote critical thinking and creative skills based on the theory, principles, and techniques of electrical engineering. Graduates will be prepared for careers in private industry, government, and/or doctoral studies in electrical engineering or related fields.

Goal 1: Students will develop a comprehensive and in-depth understanding of electrical engineering through graduate-level coursework.
Goal 2: Students will develop critical thinking skills through research activities or focused project activities.
Goal 3: Students will develop skills to communicate the results of their research in an effective and professional manner.

Admission Requirements

The applicant must meet the School of Graduate Studies' current minimum general admission requirements as published in the graduate catalog.

1. Bachelor of Science degree in Electrical Engineering or closely related field. Students holding B.S. degrees in other fields, e.g., physics, mathematics, and computer science, may be admitted to Provisional or Qualified status until undergraduate requirements in electrical engineering have been satisfied.
2. An overall undergraduate GPA of at least 2.5 or a GPA of at least 2.75 for the last two years.
3. Applicants holding degrees from non-ABET accredited programs/universities must submit scores from the General Test of the Graduate Record Examination.
4. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.

Degree Requirements

1. Course necessary for basic-level ABET accreditation. Normally, graduation from an ABET-accredited institution will satisfy this requirement.
2. A program of study must include the following:
   a) A minimum of 30 semester credit hours.
   b) Three to Six (3-6) semester credit hours of an approved design project (EE 595 Design Project).
   c) Fifteen (15) semester credit hours of coursework at the 500 level or above (including the design project).
   d) All major courses must be at the 400-level or above and approved for graduate credit.
3. An overall GPA of 2.75 or better for all coursework.
4. Complete the approved design project.

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Deadlines apply. See our website for more details.

Email: questions@gradschool.und.edu

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5. Pass a comprehensive written examination.

**Faculty and Areas of Expertise**

- **Saleh Faruque, Ph.D.**, Wireless Communications, CDMA, Electronic Circuits, VLSI Design
- **Reza Fazel-Rezai, Ph.D.**, Biomedical Signal and Image Processing
- **Arthur R. Miles, Ph.D.**, Design of Electric Motors and Generators
- **Sima Noghanian, Ph.D.**, Microwave Imaging, Multi-Element Antenna Wireless Systems, Antenna Theory and Design, Computational Electromagnetics
- **Hossein Salehfar, Ph.D.**, Power and Renewable Energy Systems, Power Electronics, Intelligent Systems (Neural Networks & Fuzzy Logic), and Electric Drives

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*The Department of Electrical Engineering also offers a Master of Science degree.*