

Electrical Engineering Combined BS/MS

The Department of Electrical Engineering offers combined programs, including a Bachelor of Science in Electrical Engineering (BSEE)/Master of Science in Electrical Engineering (M.S.E.E.) and a B.S.E.E./M. Engr. The intent of the combined programs is to allow qualified students to complete requirements for both degrees in one year beyond that required to receive the baccalaureate degree. **Students may apply for this program upon completion of 95 credits toward the Bachelor's degree.**

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 for B.S./M.S. or B.S./M.Eng. Degree

1. Students may apply for this program upon completion of 95 credits toward the bachelor's degree.
2. An overall undergraduate GPA of 3.0 at the time of admission.
3. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.
4. Students who have received a bachelor's degree or higher from the United States or English-speaking Canada are not required to submit the TOEFL.

Degree Requirements for B.S./M.S. or B.S./M.Eng. Degree

Students seeking the Master of Science or Master of Engineering degree through the Combined Degree program at the University of North Dakota must satisfy all requirements for both the B.S. and M.S. degree. A maximum of six credits of prior approved coursework can get double counted toward each of the two degrees. Double counted courses may not include required courses for the B.S.E.E. degree, but may include technical or electrical engineering elective coursework, preferably at the 500-level or above.

Degree requirements for the M.S. or M.Eng. degree will be those listed by the School of Graduate Studies as found in the graduate school catalog.

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
- **Naima Kaabouch, Ph.D.**, Signal/Image Processing, Intelligent Systems, Sensing, Cognitive Radio
- **Arthur R. Miles, Ph.D.**, Design of Electric motors and Generators
- **Sima Noghianian, 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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**Apply online: <http://graduateschool.und.edu>
Deadlines apply. See our website for more details.**

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