

Degree Curriculum

Study duration: Two academic years with total 34 credit hours

Technical core courses: (Total 15 credit hours)

Three 200-level courses:

- 1) 330:242 Complex Digital System Design
- 2) 330:244 Applied Embedded Systems
- 3) 330:248 Advanced Power Electronics

Two 100g-level courses chosen from:

- 1) 330:157 Microprocessor Applications
- 2) 330:160 Computer-Aided Instrumentation and Interfacing
- 3) 330:166 Advanced Electrical Power Systems
- 4) 330:167 Power Electronics Applications
- 5) 330:103 Modern Electronic Communications
- 6) 330:104 Applied Digital Signal Processing
- 7) 330:165 Wireless Communication Networks

Research and research methods courses:

(Total 19 credit hours)

- 1) 330:282 Technical seminar (1 credit hours)
- 2) 330:378 Technology, ethics & leadership (3 credit hours)
- 3) 330:292 Research method (3 credit hours)
- 4) Any of the following three courses (3 credit hours):
800:121 Applied statistical methods for Research
250:180 Measurement and Research;
400:239 Advanced Statistics
- 5) 330:288 Master's internship (3 credit hours)
- 6) 330:299 Master's thesis research (6 credit hours)

The admission prerequisites:

- 1) A Bachelor's degree with a major in electrical, electronic, or related technical fields.
- 2) Minimum grade point average of 3.00.
- 3) TOEFL score of 550 (paper-based) or 213 (Computer-based) for applicants whose English is not their first language; TOEFL is NOT required for applicants who have obtained a degree from universities where English is the official and teaching language.

The required application materials:

- 1) Department application; 2) Graduate College application; 3) Three professional references; 4) BS transcripts; 5) Application fee; 6) Other required documents.

Graduate assistantship & internship opportunities:

Every year, limited number of graduate assistantships is awarded to the outstanding students enrolled in the MS program, which include tuition waiver and monthly stipend.

Because John Deere, one of the top 500 companies in worldwide, has several research, development, and manufacturing centers in the same area where the University of Northern Iowa is located in, almost all master students may find paid internship and/or part-time job opportunities after finishing their first year of study.

Unique program features:

- Iowa's first 4-year MS degree granting Engineering Technology program.
- A friendly environment where you interact on a daily and personal basis with your professors.
- A flexible program offering a wide variety of options and emphases with sufficient rigor to prepare for a productive career in the EET area.
- Small class sizes which make a difference.



Master of Science in Technology with EET Emphasis

Iowa's first and only M.S. degree offering engineering technology program

**MS in Technology
with Electrical Engineering
Technology Emphasis
34 credit hours**

[www.uni.edu/indtech/grad
program.htm](http://www.uni.edu/indtech/gradprogram.htm)

www.uni.edu/indtech/eiet

Department of Industrial Technology
College of Natural Sciences