Western Michigan University’s Electrical Engineering (M.S.E.) program involves the study of electrical engineering in a wide variety of areas, including digital signal and image processing, microelectromechanical systems (MEMs), instrumentation, communications and networking, circuits, power electronics, electrical machines and control systems.

- The M.S.E. is offered within an environment of engagement, innovation and leadership.
- Internship opportunities in research and development are available, as teaching and research assistantships.
- The program yields excellence in electrical engineering research and development.
- Classes are taught by experienced faculty.
Electrical Engineering (M.S.E.)

Teaching, Research, and Program Focus Areas

Educational and computer engineering faculty have a strong track record in funded research and scholarly activity. Current faculty research areas include real-time embedded systems, reconfigurable digital systems, biomedical engineering, signal processing, image processing, sensors and nanotechnology, biological neural networks, fuzzy logic, energy conversion, power electronics systems, communications and networking, and control systems.

Students select one major electrical engineering concentration area from the list below:

- Communications and Signal Processing;
- Control Systems; and
- Electronics and Power Systems.

In addition, they also choose an elective concentration area from

- Computer Architecture and Digital Design (computer engineering);
- Communications and Signal Processing;
- Control Systems; and
- Electronics and Power Systems.

Admissions

Applicants must possess a B.S. degree in electrical engineering from an ABET accredited program in the U.S. or a reputable overseas school as certified by the WMU Office of International Student Services. Applicants must have a grade point average of 3.0 or better (A=4) in the last two years of undergraduate work. In borderline cases a suitable GRE Quantitative Score is also required. A student with a bachelor’s degree in computer science, engineering, mathematics, physics, or science can be considered for probationary admission into the MSEE program with full admission granted after completing undergraduate courses in electrical engineering specified by the department. Other application information is available on the department website: wmich.edu/ece/academics

Graduate Assistantships/Associateships

About ten Graduate Assistantships are available annually. The selection process is very competitive.

Contacts

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(269)276-3154

Western Michigan University

One of the top-100 public universities in the United States, Western Michigan University offers many nationally known graduate programs, including 29 doctoral and 64 master’s degrees. More than 20 percent of its 25,000 students are enrolled in graduate course work.

Kalamazoo

With a population of more than 325,000, Kalamazoo is the sixth largest metropolitan area in Michigan and among the 150 largest in the country. Kalamazoo is rated one of the 25 best cities in the country for young college graduates, and is located midway between Chicago and Detroit.