Western Michigan University’s Chemical Engineering (M.S.) program focuses on generating knowledge and developing new technologies. The emphasis is on applied research, and this research is structured to assist industry in the design and development of technologies based on sound theoretical principles.

Research focus areas include bioprocessing, biosensors, and biomedical applications; composite and nanostructure materials; drug release and targeted delivery; unit operations and process design; and numerical modeling of fluids.

Additional faculty research expertise in the department includes all aspects of paper making; paper coating and formulations; printed electronics; and tailored ink formulations.

Thesis and Non-thesis options are available.

The department also offers a M.S. in Paper and Printing Science, an Accelerated M.S. in Paper and Printing Science; and a Ph.D. in Paper and Printing Science.

The department’s graduate degree programs are structured so that individuals are prepared for professional careers as well as instilled with the ability to continue to learn.
Chemical Engineering (M.S.)

Teaching, Research, and Program Focus Areas

Our graduate degree programs are designed to provide theoretical and laboratory experiences which are basic to the development of professional competence. New product and process development are at the core of our faculty research efforts; including bioprocessing, biopharmaceuticals, printed electronics, 3-D printing of manufactured articles, novel inks, and specialty paper coatings. A medical school opens in 2014, and we have a lead role in a new biomedical engineering initiative.

Admissions

A Thesis Option and a Non-thesis Option are available. While the program requirements for each Option differ, the admission requirements for both Options are identical. Fall semester applications are due by February 15, and Spring semester applications are due by September 1. The GRE is required for applicants to the M.S. in Chemical Engineering programs. Applicants need to submit three letters of reference, and a one to two page “Statement of Purpose” explaining why they wish to pursue a graduate degree, as well as some idea of their area of interest for graduate research.

For additional application information and materials visit the program website: www.wmich.edu/pci/grad/grad_index.html

Graduate Assistantships/Associateships

Five to six TA positions and additional support for GA students are available annually within the department. The department has enrolled about 22 graduate students at any point in time, and more than 80% of them will receive some TA or GA support.

Contacts

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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.