Chemical Engineering

College of Engineering and Applied Sciences

Western Michigan University

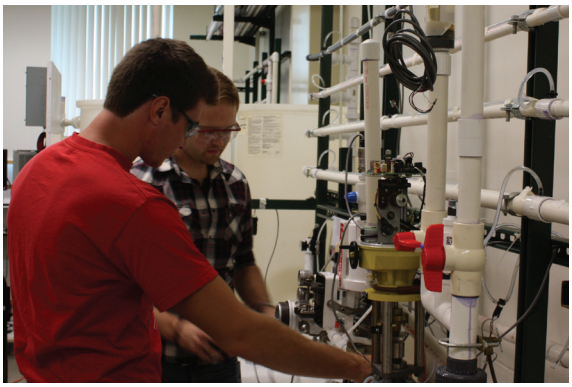
Reasons to choose our programs...

Western Michigan University's **Master of Science in Chemical Engineering** (M.S.) 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. Thesis and non-thesis options are available.

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, as well as tailored ink formulations.

An **Accelerated Graduate Degree Program in Chemical Engineering** (M.S.) is also available, which allows WMU juniors and seniors to accumulate credits toward the completion of a master's degree while still enrolled as an undergraduate. Up to 12 credit hours of designated coursework may be used to satisfy both the bachelor's degree and the master's degree. Students are charged the undergraduate tuition rate.



Teaching, Research and Program Focus Areas

The programs provide theoretical and laboratory experiences which are basic to the development of professional competence. New product and process development are at the core of faculty research efforts; including bioprocessing, biopharmaceuticals, biorefining, bioproducts, biomedical applications, biosystems, medical biosensors, energy storage devices, the environment and sustainability. More traditional research areas include fluid dynamics, unit operations and process design.

Funding

Financial support for graduate assistant engaged in teaching or research is available annually. The department has approximatley 30 graduate students enrolled at any point in time, with more than 70 percent receiving some support.

Admission

Domestic

Fall 2018: Feb. 15, 2018
Spring 2019: Sept. 1, 2018

International

Fall 2018: Feb. 15, 2018
Spring 2019: Aug. 1, 2018

Department of Chemical and Paper Engineering

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