Industrial Engineering (M.S.E., Ph.D.)

Department of Industrial and Manufacturing Engineering

College of Engineering and Applied Sciences

Reasons to Choose Our Programs…

- Western Michigan University's Industrial Engineering (M.S.E., Ph.D.) programs prepare graduates to apply scientific and mathematical principles to the design, improvement, and installation of integrated systems of people, material, information, and energy.
- The M.S.E. program is designed to increase our graduates' skills and abilities to analyze and interpret data, in order to make optimal use of the available information.
- The M.S.E. offers the opportunity to conduct research through project and thesis options, and allows the working engineer to complete the program in three years while maintaining full-time employment.
- The Ph.D. was developed to broaden the knowledge of our students in the many areas of industrial engineering, and to provide an emphasis on original research in a chosen area of specialty.
- The Ph.D. combines a traditional research experience associated with a doctoral program, with course work and laboratory experiences needed to prepare graduates to pursue careers in academia, research, and industry.
- The Ph.D. also includes areas of specialization in Manufacturing Systems, Engineering Valuation, Human Factors & Ergonomics, Operations Research, Production & Operations, and Quality Management.

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GRADUATE COLLEGE
WESTERN MICHIGAN UNIVERSITY

www.wmich.edu/grad • 260w walwood hall, kalamazoo, mi 49008 • 269.387.8212



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Teaching, Research, and Program Focus Areas

The M.S.E. in Industrial Engineering requires 30 credit hours of work that includes 18 hours of core courses and 12 hours of approved electives. The specific career path objectives of the individual may be met by focusing the electives and/or the optional thesis or project options.

The Ph.D. in Industrial Engineering requires 75 credit hours beyond the baccalaureate. The credit hours are grouped into six areas: 1) 18 hours of breadth courses; 2) 12 hours from the engineering management concentration area; 3) 9 hours from an area of specialization; 4) 18 hours of electives; 5) 3 hours related to teaching methodology; and 6) 15 hours of doctoral dissertation.

Program graduates can look forward to career opportunities at higher levels of responsibility and compensation. These include jobs at a variety of levels in academia, manufacturing and service-related industries.

Admissions

A candidate for admission must: 1) Possess a baccalaureate degree with a major in a technical field such as engineering or a related discipline; 2) Submit GRE scores for the General Test; and 3) Possess a GPA of 3.0 or better in their undergraduate work.

Students with a baccalaureate degree in industrial engineering will usually not be required to take any additional prerequisite courses. Students with other majors are encouraged to apply, but they may be required to take prerequisite courses depending upon their background. For additional application information and materials visit the program website:
M.S.E: **wmich.edu/ime/industrial.html**
P.h.D: **wmich.edu/ime/phd/industrial.html**

Graduate Assistantships/ Associateships

Graduate and Teaching Associateship positions are available in the Industrial & Manufacturing Engineering Department, with a small number available to first year graduate students.

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.