



**Industrial and Entrepreneurial Engineers** combine aspects of engineering, business, and management to bring together people, materials, and equipment to allow organizations to function as efficiently as possible.

### **Career Opportunities**

Industrial and Entrepreneurial Engineering (IEE) students take courses in a variety of disciplines that provide the skills to start their own companies and prepare them for careers in many different industries including manufacturing, healthcare, aerospace, recreation, leisure, entertainment, distribution, logistics, banking, or insurance. Graduates of the IEE Program have learned the math and science base of a traditional engineering degree, as well as how to use engineering and business skills to become a successful entrepreneur.

### **Program Description**

The IEE curriculum at WMU is an ABET accredited program that combines a traditional industrial engineering program with an entrepreneurial engineering focus where engineering design, creativity, and innovation are emphasized throughout the curriculum. The curriculum offers students the opportunity to solve real world engineering problems in a practical business model setting. Students learn how to bring real products and services to market and how to start their own companies to market and sell their product ideas. Students also learn how to be an entrepreneur in a small company or how to lead successful entrepreneurial projects in a larger company. IEE students gain knowledge and understanding of industrial and entrepreneurial engineering from a combination of academic and practical experiences that complement core engineering, math, and science courses.

IEE students study subjects such as entrepreneurial engineering, engineering economy, quality control, supply-chain management, ergonomics, computer simulation, and operations control in a beautiful engineering building with state-of-the-art laboratories designed to promote the future success of our students.

A major feature of the program allows students to apply 15 credit hours toward any minor they want. This is the only engineering program at WMU that has this flexibility. Now you can diversify your knowledge base all as part of your degree. The industrial & entrepreneurial program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

The Department of Industrial and Manufacturing Engineering at Western Michigan University offers undergraduate programs in engineering graphics and design technology, engineering management technology, industrial and entrepreneurial engineering, and manufacturing engineering technology. The department also offers master of science degrees in engineering management, industrial engineering, manufacturing engineering, and operations research. A doctorate is offered in industrial engineering.

**Laboratories:** Students in industrial and entrepreneurial engineering use specialized laboratories for the study of computer-integrated manufacturing, human factors, human performance, and plant layout and material handling.

Once you set foot in one of our classrooms or laboratories, you will quickly realize that the Parkview Campus is one of the most professional learning environments in North America, built to help your transition from college to business or industry. Also, industrial engineering students usually attend classes of only 16 to 20 individuals, which helps you take advantage of our faculty's expertise, experience, and connections to local business.

**Preparation:** To enter the Industrial and Entrepreneurial Engineering program, you should have completed, in high school, at least three and a half years of college preparatory mathematics, including trigonometry, and two years of basic science such as physics and chemistry. If you lack some of this background, you may select courses at WMU to prepare you to enter the program.

**Pre-Engineering:** WMU's pre-engineering program ensures that you take the right sequence of courses and are ready for upper-level courses. Unlike many other schools, WMU does not set quotas for admission to engineering programs; students who fulfill the requirements of the pre-engineering program are admitted to the program of their choice.

**Admissions:** Admission to the University is processed by the Office of Admissions and Orientation. Write the Office of Admissions, Western Michigan University, Kalamazoo, MI 49008-5211, call (269) 387-2000, visit

**Advising:** An academic advisor will work with you to ensure that you take the right sequence of courses and get maximum benefit from your studies at Western Michigan University. To contact an advisor, call (269) 276-3270.

**Financial Aid:** Information about financial assistance such as scholarships, work study employment opportunities, loans, and grants is available from the Office of Student Financial Aid and Scholarships.

Write Student Financial Aid, Western Michigan University, Kalamazoo, MI 49008-5337, call (269) 387-6000 or visit the web site [www.wmich.edu/finaid](http://www.wmich.edu/finaid)

**Cooperative Education:** Students enrolled in engineering, technology and applied sciences degree programs may gain experience and knowledge about a professional field of interest by enrolling in the cooperative education program. Additional information may be obtained from the Co-op Coordinator, in the Advising Office, Room E-102 CEAS.

**Placement:** Career Services helps WMU students and alumni in job search planning.

Call (269) 387-2745 or visit the web site [www.wmich.edu/career](http://www.wmich.edu/career)

For more information contact:

Department of Industrial and  
Manufacturing Engineering  
College of Engineering and  
Applied Sciences

Western Michigan University

Kalamazoo, MI 49008-5336

call (269) 276-3350

web site [www.wmich.edu/ime](http://www.wmich.edu/ime)

**Other programs at the College of  
Engineering and Applied Sciences:**

Aeronautical Engineering

Chemical Engineering

Civil Engineering

Computer Engineering

Computer Science Theory and Analysis

Computer Science General Option

Construction Engineering

Electrical Engineering

Engineering Design Technology

Engineering Management Technology

Graphic & Printing Science

Manufacturing Engineering (Muskegon,  
Battle Creek, Southwest Regional Centers  
only)

Manufacturing Engineering Technology

Mechanical Engineering

Paper Engineering

Paper Science

Western Michigan University is an equal  
opportunity employer/affirmative action  
institution.

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