

# Industrial, Systems, and Manufacturing Engineering

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The industrial, systems and manufacturing engineering (ISME) department at WSU takes responsibility for instruction and research in design, analysis and operation of manufacturing and other integrated systems of people, material, equipment and capital. The department offers curricula and educational experience designed and continuously improved through the involvement and contribution of its constituents: students and alumni, potential employers of program graduates, and faculty.

The ISME department offers two undergraduate degree programs, one in industrial engineering (BSIE) and another in product design and manufacturing engineering (BSPDME). These engineering degree programs are accredited by the Engineering Accreditation Commission of ABET (<http://www.abet.org>)<sup>1</sup>.

The department also offers three graduate degree programs: Master of Engineering Management (MEM), MS in industrial engineering (MSIE), and PhD in industrial engineering. Both the MSIE and PhD programs allow concentrations in operations research, systems, production and supply chain analytics, quality and reliability, manufacturing engineering, and human systems engineering. The MEM program is geared toward helping engineers/technologists develop planning, decision-making and managerial skills while receiving advanced technical knowledge.

Modern, well-equipped laboratories are available to supplement classroom theory in ergonomics, manufacturing engineering and computer analysis. The department's laboratory facilities include Manufacturing Processes Lab, CAD/Systems Lab, Metrology Lab, Reliability Lab, Rapid Prototyping and Product Development Lab, Sustainable Engineered Systems, and Open Computing Lab. Students in the academic programs offered by the ISME department get ample opportunity to work on real-life problems in local industries as part of course requirements.

<sup>1</sup> Link opens new window.

## Majors in Industrial, Systems and Manufacturing Engineering

- Dual/Accelerated Bachelor's to Master's in Industrial Engineering (<http://catalog.wichita.edu/undergraduate/engineering/industrial-manufacturing-engineering/dualaccelerated-bs-to-ms/>)
- Dual/Accelerated BS to MEM Program (<http://catalog.wichita.edu/undergraduate/engineering/industrial-manufacturing-engineering/dualaccelerated-bs-mem-program/>)
- BS in Industrial Engineering (<http://catalog.wichita.edu/undergraduate/engineering/industrial-manufacturing-engineering/industrial-engineering-bs/>)
- BS in Product Design and Manufacturing Engineering (<http://catalog.wichita.edu/undergraduate/engineering/industrial-manufacturing-engineering/bs-in-product-design-and-manufacturing-engineering/>)

## Minors in Industrial, Systems and Manufacturing Engineering

- Minor in Manufacturing Engineering (<http://catalog.wichita.edu/undergraduate/engineering/industrial-manufacturing-engineering/manufacturing-engineering-minor/>)

## Courses in Industrial, Systems and Manufacturing Engineering

- First-Year Seminar ISME (FYIM) (<http://catalog.wichita.edu/undergraduate/courses/fyim-first-year-seminar-isme/>)
- Industrial and Manufacturing Engineering (IME) (<http://catalog.wichita.edu/undergraduate/courses/ime/>)