

Industrial Engineering

Industrial engineers plan, design and supervise the installation of operational systems. They are in high demand in many sectors of the economy, from traditional industrial settings to hospital operations.

The Industrial Engineering program at St. Ambrose includes a liberal arts foundation that prepares graduates to enter the workforce with an awareness of the environment in which engineering solutions must exist. Graduates also gain communication and problem-solving skills that are important for success in their careers.

Contact us

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 Visit the Industrial Engineering
 Web site at www.sau.edu/ie
 For general information about
 St. Ambrose or how to apply:
 Admissions Office
 563/333-6300 or 800/383-2627
 email: admit@sau.edu
www.sau.edu

Degrees offered and required credit hours

St. Ambrose University offers a Bachelor of Science in Industrial Engineering. The program is accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET).

The Industrial Engineering degree requires 130 credit hours including courses in mathematics, science, and engineering analysis and design.

Program highlights and courses

The Industrial Engineering program at St. Ambrose has long been recognized for a strong curriculum that provides graduates with knowledge in engineering design, general education, modern computer technologies, and writing and thinking skills. Industrial Engineering students at St. Ambrose develop engineering ability through an integrated design experience across several courses, while building and reinforcing critical skills. Students learn to identify problems, collect relevant data, analyze results, develop creative integrated solutions in a team environment, and communicate those results effectively.

See our course catalog at www.sau.edu/catalog for a full description of required and elective courses.

Internships

The IE Department requires students to participate in internship programs to receive quality real-world experience. IE students from St. Ambrose have obtained internships at various regional and national corporations, including NASA, Deere and Company, HON Company, Oscar Mayer, and Genesis Health System.

Financial assistance

Qualified students can obtain financial aid through scholarships, student loans, grants, work study, and employment. Tuition assistance and other incentives may be available through a student's employer.

IE majors may apply for Sciences, Technology, Engineering and Mathematics Talent Expansion Program (STEP) scholarships funded by the National Science Foundation. In addition to the scholarships, retention programs with peer and professional mentoring, tutoring and learning communities are also available. Women and minorities are particularly encouraged to apply. For more information, visit www.sau.edu/ie.

Alumni

Graduates with St. Ambrose IE degrees currently work at HON Company, Deere and Company, Caterpillar, Sears Manufacturing, MidAmerican Energy, Musco Lighting, Kraft Foods, Oscar Mayer, and various regional and national corporations.

About the faculty

In addition to the Industrial Engineering faculty, mathematics and engineering science professors teach courses required for an IE degree.

Tom Hill PhD, Professor

HillThomasW@sau.edu

Prof. Hill teaches Design Fundamentals; Engineering Economy; Operations Planning, Scheduling and Control; Probability Models; Mathematical Programming; and Integration and Design. He has a PhD from Arizona State University and has taught at St. Ambrose since 1995.

Michael Opar PhD, Professor and Department Chair

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Prof. Opar teaches Introduction to Industrial Engineering; Quality Control and Reliability; Ergonomics and Occupational Safety; Simulation; and Senior Design. He holds a PhD in industrial engineering from the University of Iowa and has taught at Ambrose since 1993.