Industrial Engineering, B.S.E.

The Department of Industrial and Systems Engineering offers a host of options for each engineering student. From the undergraduate engineering degree, a dual Undergrad to Grad (U2G) degree, elective focus areas, and extracurricular activities, there are many options available to explore and develop professional skills. The industrial and systems engineering (ISE) undergraduate program emphasizes a broad education in engineering fundamentals and the opportunity for in-depth learning in an elective focus area.

Elective Focus Areas and Specialized Opportunities

As part of the mission to help students be engineers and something more, the Department of Industrial and Systems Engineering offers elective focus area options so that students can pursue specialized interests, such as big data analytics, design and manufacturing, computer and information systems, entrepreneurship, human factors, and management in order to complement their undergraduate degree in industrial engineering.

Student Organizations

Student organizations can have an enormous impact on an undergraduate student’s career. The College of Engineering is home to a number of student organizations and clubs. Popular organizations for industrial and systems engineering students include the Institute of Industrial and Systems Engineers and the Human Factors and Ergonomics Society.

Undergraduate Resources

Resources are available to students to pursue research, access professional services available in the college and across the University, and participate in or view sports and arts events on campus and around town.

Scholarships

A variety of scholarships and funding opportunities are available to industrial and systems engineering students.

Accreditation

The undergraduate program in industrial engineering is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Educational Objectives

The following educational objectives of the program are defined in conjunction with the accreditation process. Within a few years of graduation, industrial engineering graduates will:

• continue learning,
• lead and inspire others, and
• engage in the community and society.