

# BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

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The principal strength of the academic program leading to the Bachelor of Science in Industrial Engineering (BS IE) is its blend of mathematics, physical sciences and business applications. The methodology foundation is built on probability, optimization, statistics, computing, and economics. The program features a unique concentration system that allows students to get a broad industrial engineering education and to specialize in areas such as

- Advanced Studies in Operations Research and Statistics,
- Analytics and Data Science,
- Economic and Financial Systems,
- Operations Research,
- Quality and Statistics,
- Supply Chain Engineering, and
- General Industrial Engineering.

This blend produces the flexibility that is inherent in the field of industrial and systems engineering, and that affords BSIE graduates a wide array of career options. Our graduates are constantly looking for ways to make anything in life work better, more efficiently and more productively.

## Program Educational Objectives

The H. Milton Stewart School of Industrial and Systems Engineering expects our graduates (in 3 to 6 years):

- to become successful Industrial Engineers;
  - to take leadership in their endeavors;
  - to be self-learners and starters;
  - to succeed in professional and educational advancement
- Bachelor of Science in Industrial Engineering - Advanced Studies in Operations Research and Statistics
  - Bachelor of Science in Industrial Engineering - Analytics and Data Science
  - Bachelor of Science in Industrial Engineering - General
  - Bachelor of Science in Industrial Engineering - Economic and Financial Systems
  - Bachelor of Science in Industrial Engineering - Operations Research
  - Bachelor of Science in Industrial Engineering - Quality and Statistics
  - Bachelor of Science in Industrial Engineering - Supply Chain Engineering