Description

The minor program in engineering management is designed to provide the student with the skills for effective management and leadership of engineering-driven enterprises. The minor curriculum supplements the student's major by adding to the breadth of engineering science and design, and it equips the student with additional management and design skills. This knowledge is augmented with an understanding of business practices, organizational behavior, and management skills to enable the graduate to succeed in the management of a scientific or engineering enterprise. Topics such as project and resource management, financial engineering, risk management, configuration management, service plans, product liability, entrepreneurship and operations management are covered, in addition to product design and process development.

At a Glance

- College/School: Ira A. Fulton Schools of Engineering
- Location: Tempe campus or online

Program Requirements

Prior to enrolling in the minor, students must have completed MAT 265 and MAT 266 (or an equivalent calculus sequence) with a grade of C or better in each.

The program of study for a minor in engineering management requires a minimum of 18 credit hours. Note that industrial engineering or engineering management majors will NOT be eligible for the minor. The minor requires completion of four core courses (12 credit hours) and two elective courses (six credit hours) for a total of 18 credit hours. All courses must be passed with a "C" or better. At least 12 credit hours must be completed in residency at ASU or through ASU Online. The required core courses include:

**Core Courses (12 Credit Hours):**
IEE 300: Economic Analysis for Engineers (3)
IEE 431: Engineering Administration (L) (3)
IEE 220: Business and Industrial Engineering or IEE 380: Probability and Statistics for Engineering Problem Solving (CS) (3)

Notes: Students whose major requires IEE 380 Probability and Statistics for Engineering Problem Solving (3) will need to take IEE 220 Business and Industrial Engineering (3) for the engineering management minor.

IEE 458: Project Management or CEE 481: Civil Engineering Project Management (3)

Notes: CEE 481 may not be used for both the civil engineering degree (major) and the engineering management minor.

Elective Courses (6 Credit Hours):

IEE 369: Work Analysis and Design (L) (3)
IEE 376: Operations Research Deterministic Techniques/Applications (3)
IEE 381: Lean Six Sigma Methodology (3)
IEE 412: Introduction to Financial Engineering (3)
IEE 454: Risk Management (3)
IEE 456: Introduction to Systems Engineering (3)
IEE 474: Quality Control (3)

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment Requirements

GPA Requirement: Prior to enrolling in the minor, students must have completed MAT 265 and MAT 266 (or an equivalent calculus sequence) with a grade of "C" or better in each.

Majors Ineligible to Add This Minor: engineering management and industrial engineering

Other Enrollment Requirements: None

Students in most majors may pursue at least one minor and, upon successful completion of the prescribed coursework, have that accomplishment officially recognized on the ASU transcript at graduation if the college or department of the minor officially certifies, through established verification procedures, that all requirements for the minor have been met and the college (and in certain colleges, the department) of the student's major allows the official recognition of the minor.

Interested students should consult with a School of Computing, Informatics and Decision Systems Engineering advisor to verify eligibility and to review all courses required for the minor. To schedule a
CIDSE advising appointment, go to https://fultonapps.asu.edu/advising. Students interested in the engineering management minor should also consult with the advisor of the major to ensure recognition of the minor.

Note: Certain major and minor combinations may be deemed inappropriate either by the college or department of the major or minor. Courses taken as part of a minor may not count toward both the major degree and the minor. Students should contact the department for more information.

**Attend Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information [here](https://fultonapps.asu.edu/advising).

**Contact Information**

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