Engineering Management, Minor

ESENMMIN

Description

The minor in engineering management is a program designed to provide students with the skills for effective management and leadership of engineering-driven enterprises. This minor can also be used by interdisciplinary studies BA students as part of their degree program.

The minor curriculum supplements students' majors by adding to the breadth of engineering science and design and equipping 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 student 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

2019 - 2020 Major Map
Major Map (Archives)

Program Requirements

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.
Core Courses -- 12 credit hours

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. Online students are required to complete IEE 380 as part of their core.

IEE 300: Economic Analysis for Engineers (3)
IEE 431: Engineering Administration (L) (3)
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.

Electives -- 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: None

Incompatible Majors: BSE in engineering management and BSE in industrial engineering

Other Enrollment 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.

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, students should visit https://fultonapps.asu.edu/advising.

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Students interested in pursuing a minor should consult their academic advisor to declare the
minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and the minor. Students should contact their academic advisor 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.

Global Opportunities

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Career Opportunities

Contact Information

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