

ENGINEERING MANAGEMENT MINOR

College of Engineering

Program Website (<https://www.engineering.cornell.edu/mem/degree/minor-in-engineering-management-requirements/>)

Program Description

Students affiliated with all majors are eligible to participate in this minor. CEE students may not use courses simultaneously to satisfy a requirement for the minor and as a major-approved elective or design elective. ORIE students have some specific restrictions and requirements as noted below. Students pursuing the Independent Major should obtain approval from CEE for their proposed minor courses, as they relate to approved primary- and secondary-area programs.

This minor focuses on giving students a basic understanding of engineering economics, accounting, statistics, project management methods, and analysis tools necessary to manage technical operations and projects effectively. The minor provides an important set of collateral skills for students in any engineering discipline.

Academic Standards

- At least C in each course in the minor.

Minor Requirements

At least six courses (≥ 18 credits), chosen as follows:

Required Courses ¹

Code	Title	Hours
CEE 3230	Engineering Economics and Management ²	3
or ORIE 3150	Financial and Managerial Accounting	
Select one of the following:		3
CEE 3040	Uncertainty Analysis in Engineering	
ENGRD 2700	Eng Probability and Statistics: Modeling and Data Science	
ECE 3100	Introduction to Probability and Inference for Random Signals and Systems	

Additional Courses ¹

Code	Title	Hours
Select three of the following:		
ENGRG 3600	Ethical Issues in Engineering Practice	3
CEE 5900	Project Management	4
CEE 5930	Data Analytics ³	4
CEE 5970	Risk Analysis and Management	3
CEE 5980	Decision Framing and Analytics	3
ENMGT 5990	Contemporary Challenges for Engineering Managers	3
NBA 5070	Entrepreneurship for Scientists and Engineers	3

¹ Other courses approved by petition in advance

² ORIE students must substitute NCC 5560 Managerial Finance or NBA 5000 Intermediate Accounting for ORIE 3500 Eng Probability and Statistics: Modeling and Data Science II

³ This course is not accepted for ORIE students

Graduation Requirements for Engineering Minor Degree Programs

Requirements

Students may pursue minors in any department in any college that offers them, subject to limitations placed by the department offering the minor or by the students' major. Completed minors will appear on the student's transcript. Not all departments offer minors. Additional information on specific minors can be found above, in the *Engineering Undergraduate Handbook*, in the undergraduate major office of the department or school offering the minor, and in Engineering Advising.

An engineering minor recognizes formal study of a particular subject area in engineering normally outside the major. Students undertaking a minor are expected to complete the requirements during the time of their continuous undergraduate enrollment at Cornell. Completing the requirements for an engineering minor (along with a major) may require more than the traditional eight semesters at Cornell. However, courses that fulfill minor requirements may also satisfy other degree requirements (e.g., distribution courses, advisor-approved, or major-approved electives), and completion within eight semesters is possible.

An engineering minor requires:

- successful completion of all requirements for an undergraduate degree.
- enrollment in a major that approves participation in the minor.
- satisfactory completion of six courses (at least 18 credits) in a college-approved minor.

Students may apply for certification of a minor at any time after the required course work has been completed in accordance with published standards. An official notation of certification of a minor appears on the Cornell transcript following graduation.