

ELECTRICAL AND COMPUTER ENGINEERING MINOR

College of Engineering

Program Website (<https://www.engineering.cornell.edu/ece/minor/>)

Program Requirements

Students affiliated with all majors except Electrical and Computer Engineering are eligible to participate in this minor.

This minor offers the opportunity to study analog and digital circuits, data, signals and systems, and electromagnetics and to concentrate at higher levels in one of several different areas such as circuit design, electronic devices, communications, computer engineering, networks, and space engineering.

Academics Standards

At least C- in each course in the minor. GPA ≥ 2.3 for all courses in the minor.

Minor Requirements

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

Code	Title	Hours
CS 3410	Computer System Organization and Programming	4
One non-project technical ECE 3000-level or above course		minimum 3
One non-project ECE 4000-level or above course		minimum 3
Select two of the following:		8
ECE 2100	Introduction to Circuits for Electrical and Computer Engineers	
ECE 2720	Data Science for Engineers	
ECE 2300	Digital Logic and Computer Organization	
Select two of the following:		8
ECE 3030	Electromagnetic Fields and Waves	
ECE 3100	Introduction to Probability and Inference for Random Signals and Systems	
ECE 3140	Embedded Systems	
ECE 3250	Signals and Systems	
ECE 3150	Introduction to Microelectronics	

Graduation Requirements for Engineering Minor Degree Programs

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.