Electrical and Computer Engineering (ECE) transforms our day-to-day lives through a multitude of innovative technologies and products. The ECE minor is intended to expose students from other disciplines to the unlimited opportunities for innovation in this exciting field, and to the methodologies and tools used by electrical and computer engineers for the exploration and design of new technologies and products. The minor is open to undergraduates outside the ECE Department. Computer Science majors cannot elect the Computer Engineering Option within the minor.

### Code | Title | Hours
--- | --- | ---
**Circuits Requirement:** 4
Select one of the following: 3
ECE 110 Introduction to Electronics  
ECE 205 Electrical and Electronic Circuits

**Programming Requirement:** 3-4
Select one of the following (with no particular preference): 3-4
CS 101 Intro Computing: Engrg & Sci  
CS 125 Introduction to Computer Science

A probability or statistics course chosen from an approved list below: 3-4
ECE 313 Probability with Engrg Applic  
IE 300 Analysis of Data  
BIOE 310 Comp Tools Bio Data  
MATH 461 Probability Theory  
MATH 463 Statistics and Probability I  
CEE 202 Engineering Risk & Uncertainty  
CS 361 Probability & Statistics for Computer Science

Select one of the following options below. Both the Core and Advanced Core courses from Option A or B must be completed 9-11

**Core Requirement:**
- ECE 120 Introduction to Computing
- ECE 220 Computer Systems & Programming

**Advanced Core Electives:**
- Two ECE courses chosen from an approved list below:
  - ECE 385 Digital Systems Laboratory 3
  - ECE 391 Computer Systems Engineering 4
  - ECE 411 Computer Organization & Design 4

Elective ECE Courses to achieve a minimum of 18 hours of ECE course work: 0-5

1. If the student will be taking ECE 220 following ECE 120, this requirement will be waived.
2. Completion of the minor requires a minimum of 18 hours ECE course work. No additional hours are needed in this category if all courses taken to satisfy the previous requirements are ECE courses. Otherwise choose from any 300 and 400 level classes except ECE 316, ECE 317, ECE 396, ECE 397, ECE 496, ECE 499.