MINOR IN ELECTRICAL AND COMPUTER ENGINEERING

Electrical and computer engineering 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.

Circuits Requirement:
Select one of the following: 3-4

- ECE 110 Introduction to Electronics
- ECE 205 Elec & Electronic Circuits
- ECE 206 and Elec & Electronic Circuits Lab

Programming Requirement:
Select one of the following (with no particular preference): 3-4

- CS 101 Intro Computing: Engrg & Sci
- CS 125 Intro to Computer Science

A probability or statistics course chosen from an approved list. 3-4

Select one of the following options: 2

A. Electrical Engineering Option

Core requirement:
ECE 210 Analog Signal Processing

Advanced Core Electives:
Two ECE courses chosen from an approved list. 3

B. Computing Engineering Option

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

Advanced Core Electives:
One ECE course chosen from an approved list. 4

Elective ECE Courses to achieve a minimum of 18 hours of ECE course work. 5

Total Hours 21-24

1 ECE 313 or IE 300 or BIOE 310 or MATH 461 or MATH 463/STAT 400 or CEE 202
2 To complete the minor, both the Core and Advanced Core courses from Option “A” or “B,” must be completed.
3 Advanced Core Electives (EE): ECE 310, ECE 329, ECE 330, ECE 340, ECE 342/343
4 Advanced Core Electives (CE): ECE 385, ECE 391, ECE 411
5 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 chose from any 300 and 400 level classes except ECE 316, 317, 396, 397, 496, 499.

For more information regarding the Electrical and Computer Engineering minor, visit the Electrical and Computer Engineering minor Web site (http://www.ece.illinois.edu/academics/ugrad/ece-minor.asp), contact the Electrical and Computer Engineering Undergraduate Programs Office (2120 ECE Building, 217-333-0716, ece-advisor@illinois.edu), or visit the Office of the Associate Dean for Undergraduate Programs, 206 Engineering Hall.