ELECTRICAL & COMPUTER ENGINEERING MINOR

for the Minor in Electrical & Computer Engineering

College: Engineering (https://engineering.illinois.edu)

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECE 110</td>
<td>Introduction to Electronics</td>
<td>3</td>
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<tr>
<td>ECE 205</td>
<td>Electrical and Electronic Circuits</td>
<td>3</td>
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Programming Requirement:
Select one of the following (with no particular preference): 3-4

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<tr>
<td>CS 101</td>
<td>Intro Computing: Engrg &amp; Sci</td>
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<tr>
<td>CS 125</td>
<td>Intro to Computer Science</td>
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A probability or statistics course chosen from an approved list. 2

Select one of the following options: 3

A. Electrical Engineering Option
Core requirement:
ECE 210  Analog Signal Processing
Advanced Core Electives:
Two ECE courses chosen from an approved list. 4

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. 5

Elective ECE Courses to achieve a minimum of 18 hours of ECE course work. 6

Total Hours 21-23

1 If the student will be taking ECE 220 following ECE 120, this requirement will be waived.
2 ECE 313 or IE 300 or BIOE 310 or MATH 461 or MATH 463/STAT 400 or CEE 202 or CS/STAT 361
3 To complete the minor, both the Core and Advanced Core courses from Option "A" or "B," must be completed.
4 Advanced Core Electives (EE): ECE 310, ECE 329, ECE 330, ECE 340, ECE 342/343
5 Advanced Core Electives (CE): ECE 385, ECE 391, ECE 411
6 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.

Information listed in this catalog is current as of 05/2019