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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Circuits Requirement:</strong></td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ECE 110</td>
<td>Introduction to Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 205</td>
<td>Electrical and Electronic Circuits</td>
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<td></td>
<td><strong>Programming Requirement:</strong></td>
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<tr>
<td>Select one of the following (with no particular preference):</td>
<td></td>
<td>3-4</td>
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<tr>
<td>CS 101</td>
<td>Intro Computing: Engrg &amp; Sci</td>
<td>3</td>
</tr>
<tr>
<td>CS 125</td>
<td>Intro to Computer Science</td>
<td>3-4</td>
</tr>
<tr>
<td>A probability or statistics course chosen from an approved list below:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>ECE 313</td>
<td>Probability with Engrg Applic</td>
<td>3</td>
</tr>
<tr>
<td>IE 300</td>
<td>Analysis of Data</td>
<td>3</td>
</tr>
<tr>
<td>BIOE 310</td>
<td>Comp Tools Bio Data</td>
<td>3</td>
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<tr>
<td>MATH 461</td>
<td>Probability Theory</td>
<td>3 or 4</td>
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<tr>
<td>MATH 463</td>
<td>Statistics and Probability I</td>
<td>4</td>
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<tr>
<td>CEE 202</td>
<td>Engineering Risk &amp; Uncertainty</td>
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<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science</td>
<td>3</td>
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<tr>
<td>Select one of the following options below. Both the Core and Advanced Core courses from Option A or B must be completed</td>
<td></td>
<td>9-11</td>
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<tr>
<td>A. Electrical Engineering Option</td>
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<tr>
<td>Core requirement:</td>
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<tr>
<td>ECE 210</td>
<td>Analog Signal Processing</td>
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<tr>
<td>Advanced Core Electives:</td>
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<tr>
<td>Two ECE courses chosen from an approved list below:</td>
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<tr>
<td>ECE 310</td>
<td>Digital Signal Processing</td>
<td>3</td>
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<tr>
<td>ECE 329</td>
<td>Fields and Waves I</td>
<td>3</td>
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<tr>
<td>ECE 330</td>
<td>Power Ckts &amp; Electromechanics</td>
<td>3</td>
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<tr>
<td>ECE 340</td>
<td>Semiconductor Electronics</td>
<td>3</td>
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<td>ECE 342</td>
<td>Electronic Circuits</td>
<td>3</td>
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<tr>
<td>&amp; ECE 343</td>
<td>and Electronic Circuits Laboratory</td>
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<tr>
<td>B. Computing Engineering Option</td>
<td></td>
<td></td>
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<tr>
<td>Core Requirement:</td>
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</tbody>
</table>

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.

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.