Electrical Engineering
Minor (Non-Teaching)

The Department of Electrical and Computer Engineering offers a non-teaching minor in Electrical Engineering that provides interested students with an introductory understanding of electrical circuits, electronics, and properties of signals. Students then choose electives from among a variety of electrical engineering topics, such as telecommunications, optics, electronics, electrical power, and control systems. This minor requires a minimum of 30 credits in electrical engineering subjects, with 9 of those credits selected from a list of upper division elective courses. This minor complements majors in science or engineering for those seeking a cross-disciplinary academic program. A CpE major can complete a minor in Electrical Engineering by taking three EELE classes (9 cr min) from the specified elective list for the EE minor. This can be done within the 126 credits required for the CpE degree alone.

Required core courses for the minor (22 cr.):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EELE 101</td>
<td>Introduction to Electrical Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>EELE 201</td>
<td>Circuits I for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>EELE 203</td>
<td>Circuits II for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>EELE 308</td>
<td>Signals and Systems Analysis</td>
<td>4</td>
</tr>
<tr>
<td>EELE 317</td>
<td>Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EELE 334</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
</tbody>
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Choose at least nine credits from the following: 9

- EELE 321  Introduction To Feedback Controls
- EELE 355  Energy Conversion Devices
- EELE 407  Intro To Microfabrication
- EELE 409  EE Material Science
- EELE 411  Advanced Analog Electronics
- EELE 422  Intro to Modern Control
- EELE 432  Applied Electromagnetics
- EELE 445  Telecommunication Systems
- EELE 447  Mobile Wireless Communications
- EELE 477  Digital Signal Processing
- EELE 482  Electro-Optical Systems
- EELE 484  Laser Engineering

Total Credits 31

Students must receive a grade of "C-" or better in all required courses for the EE minor.