what can you do with this degree?

Electrical engineering is behind all of today’s electronic innovations. Systems as simple as your home’s thermostat and as sophisticated as those found on space shuttles are products of electrical engineering. Electrical engineering offers nearly limitless outlets for creativity and the opportunity to shape the world as we know it. Renewable energy sources, satellite communications systems, microwave devices and systems, pulsed power systems and technology, particle accelerators, plasma technology and the design of digital and computer circuits are all within the electrical engineering realm. An EE degree will prepare you for a career in industry, research, national labs, or academia.

EE required course breakdown

These courses are required for all EE students:

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>56 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing and Speaking</td>
<td>9 credits</td>
</tr>
<tr>
<td>Mathematics</td>
<td>16 credits</td>
</tr>
<tr>
<td>Physical &amp; Natural Sciences</td>
<td>13 credits</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>6 credits</td>
</tr>
<tr>
<td>Humanities</td>
<td>6 credits</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3 credits</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**ECE Department Core** | **36 credits**

**EE Completeness Courses** | **19 credits**

**Track Courses** | **6 credits**

**Technical Elective** | **3 credits**

120 credits

admission requirements

Admission into the EE program requires completion of at least 18 credit hours from the following technical subjects with a minimum GPA of at least 2.5:

- MATH 162  4 credits
- MATH 163  4 credits
- PHYC 160  3 credits
- PHYC 161  3 credits
- PHYC 161L 1 credit
- ECE 101  1 credit
- ECE 131  3 credits
- ECE 203  3 credits

Additional courses selected from math and physics

track and technical course breakdown

**Track courses** will define your area of specialization. Electrical Engineering offers the following tracks: Digital Systems, Electromagnetics, Energy/Power Systems, Microelectronics, Optoelectronics, Signals and Communications and Systems and Controls.

**Technical electives** are approved 300 level and above courses outside of your chosen track. This can include ECE, math, computer science or physics courses. **ECE 231 has also been approved as an EE Technical Elective.**