The Associate of Science Degree in Engineering will prepare those students interested in laying a foundation for further study and for a Bachelor’s Degree in an engineering field from a four-year college or university.

The engineering program fulfills many of the requirements and foundation courses for transfer to Baccalaureate engineering-related majors, but does not satisfy all transfer requirements for specific institutions. Students should consult a counselor for major preparation for specific universities and colleges.

To acquire the **Associate of Science Degree in Engineering**, students must complete the required major courses below with a grade of “C” or better along with one of the following:

- RHC GE and Proficiency requirements
- CSU GE (California State University General Education Breadth)
- IGETC (Intersegmental General Education Transfer Curriculum)

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>N</th>
<th>IP</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 190/H</td>
<td>*Calculus I/Honors</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 191</td>
<td>*Calculus II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 211</td>
<td>*Physics for Scientists &amp; Engineers I</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 212</td>
<td>*Physics for Scientists &amp; Engineers II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 213</td>
<td>*Physics for Scientists &amp; Engineers III</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Choose 16 units from the list below:

- BIOL 200 *Principles of Biology 1
- BIOL 201 *Principles of Biology 2
- CHEM 130 *General Chemistry
- CHEM 140 *General Chemistry
- CHEM 230 *Organic Chemistry I
- CHEM 231 *Organic Chemistry II
- CIT 125 Introduction to C++ Programming
- CIT 126 *Advanced C++ Programming
- CIV 140 Civil Drafting Fundamentals
- CIV 142 Introduction to Surveying and GPS
- CIV 241 *Civil Engineering Drafting and Design
- ENGT 122 Engineering Design Graphics
- ENGT 138 Engineering Careers and Applications
- ENGR 217 *Electric Circuit Analysis
- ENGR 235 *Engineering Mechanics: Statics
- MATH 250 *Calculus III
- MATH 260 *Linear Algebra
- MATH 270 *Differential Equations

**Total major units needed for Associate of Science** 36

Units Completed

*Prerequisite/Corequisite