



DIVISION OF MATHEMATICS, SCIENCES, AND ENGINEERING

# ENGINEERING

ASSOCIATE OF SCIENCE DEGREE

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:

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

Required Courses	Units	N	IP	C
<b>MATH 190/H</b> *Calculus I/Honors	<b>4</b>			
<b>MATH 191</b> *Calculus II	<b>4</b>			
<b>PHY 211</b> *Physics for Scientists & Engineers I	<b>4</b>			
<b>PHY 212</b> *Physics for Scientists & Engineers II	<b>4</b>			
<b>PHY 213</b> *Physics for Scientists & Engineers III	<b>4</b>			
<b>Choose 16 units from the list below:</b>				
<b>BIOL 200</b> *Principles of Biology 1	<b>5</b>			
<b>BIOL 201</b> *Principles of Biology 2	<b>5</b>			
<b>CHEM 130</b> *General Chemistry	<b>5</b>			
<b>CHEM 140</b> *General Chemistry	<b>5</b>			
<b>CHEM 230</b> *Organic Chemistry I	<b>5</b>			
<b>CHEM 231</b> *Organic Chemistry II	<b>5</b>			
<b>CIT 125</b> Introduction to C++ Programming	<b>4</b>			
<b>CIT 126</b> *Advanced C++ Programming	<b>4</b>			
<b>CIV 140</b> Civil Drafting Fundamentals	<b>3</b>			
<b>CIV 142</b> Introduction to Surveying and GPS	<b>4</b>			
<b>CIV 241</b> *Civil Engineering Drafting and Design	<b>3</b>			
<b>ENGT 122</b> Engineering Design Graphics	<b>4</b>			
<b>ENGT 138</b> Engineering Careers and Applications	<b>2</b>			
<b>ENGR 217</b> *Electric Circuit Analysis	<b>3</b>			
<b>ENGR 235</b> *Engineering Mechanics: Statics	<b>3</b>			
<b>MATH 250</b> *Calculus III	<b>4</b>			
<b>MATH 260</b> *Linear Algebra	<b>4</b>			
<b>MATH 270</b> *Differential Equations	<b>4</b>			
<b>Total major units needed for Associate of Science</b>	<b>36</b>			
Units Completed				
*Prerequisite/Corequisite				