



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
MATH 190/H *Calculus I/Honors	4			
MATH 191 *Calculus II	4			
PHY 211 *Physics for Scientists & Engineers I	4			
PHY 212 *Physics for Scientists & Engineers II	4			
PHY 213 *Physics for Scientists & Engineers III	4			
Choose 16 units from the list below:				
BIOL 200 *Principles of Biology 1	5			
BIOL 201 *Principles of Biology 2	5			
CHEM 130 *General Chemistry	5			
CHEM 140 *General Chemistry	5			
CHEM 230 *Organic Chemistry I	5			
CHEM 231 *Organic Chemistry II	5			
CIT 125 Introduction to C++ Programming	4			
CIT 126 *Advanced C++ Programming	4			
CIV 140 Civil Drafting Fundamentals	4			
CIV 142 Introduction to Surveying and GPS	4			
CIV 241 *Civil Engineering Drafting and Design	3			
ENGT 122 Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3			
ENGR 100 or ENGT 100 Introduction to Engineering	2			
ENGR 217 *Electric Circuit Analysis	3			
ENGR 235 *Engineering Mechanics: Statics	3			
MATH 250 *Calculus III	4			
MATH 260 *Linear Algebra	4			
MATH 270 *Differential Equations	4			
Total major units needed for Associate of Science	36			
Units Completed				

*Prerequisite/Corequisite

--	--	--	--