



DIVISION OF CAREER & TECHNICAL EDUCATION

ENGINEERING DESIGN DRAFTING

ASSOCIATE OF SCIENCE DEGREE

This major curriculum leads to the Associate of Science Degree in Engineering Design Drafting for advanced Tech Prep applications, employment in design, engineering and manufacturing related industries, public works, utilities and CADD/Drafting-related industries. Upon completion of specific General Education courses, this program also fulfills many of the requirements and foundation courses for transfer to other Baccalaureate technical majors within Engineering and Industrial Technology but is not intended to fulfill transfer requirements for the Baccalaureate degree. (See transfer requirements for individual colleges and universities.)

To acquire the **Associate of Science Degree in Engineering Design Drafting**, 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 |
|----------------------------------------------------------|----------------------------------------------------------------|-----------|---|----|---|
| ARCH 115 | Introduction to Residential Architecture: Drawing & Design | 4 | | | |
| CIV 140 | Civil Drafting Fundamentals | 3 | | | |
| ENGT 101 | Introduction to Technical Drawing & Graphics | 3 | | | |
| ENGT 105 | Architectural & Technical Freehand Sketching | 2 | | | |
| ENGT 122 | Engineering Design Graphics | 4 | | | |
| ENGT 131 | *Engineering & Manufacturing Applications of Technical Drawing | 4 | | | |
| ENGT 150 | AutoCAD for Basic CADD Applications | 4 | | | |
| ENGT 231 | *Technical Product Design & Presentation | 4 | | | |
| ENGT 250 | *Parametric Modeling 3D Applications for Mechanical Design | 4 | | | |
| ENGT 270 | *Solid Works for 3D Modeling and Prototype Applications | 4 | | | |
| Total major units needed for Associate of Science | | 36 | | | |
| Units Completed | | | | | |
| *Prerequisite/Corequisite | | | | | |