



DIVISION OF CAREER & TECHNICAL EDUCATION

# ENGINEERING DESIGN TECHNOLOGY

ASSOCIATE OF SCIENCE DEGREE

This major curriculum leads to the **Associate of Science Degree in Engineering Design Technology** for advanced Tech Prep applications, employment in design, engineering and manufacturing-related industries, public works, utilities and CADD/Drafting-related industries. The program includes applications such as 3D parametric modeling, CADD (Computer-Assisted Design and Drafting), manufacturing processes, 3D Printing, and traditional drafting methods and standards.

To acquire the **Associate of Science Degree in Engineering Design Technology**, 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>ENGT 101</b>	Introduction to Technical Drawing & Graphics	<b>3</b>			
<b>ENGT 105</b>	Introduction to Visualization, Sketching, & Rendering	<b>2</b>			
<b>ENGT 150</b> or <b>ENGT 170</b>	AutoCAD for Basic CADD Applications Microstation for Basic CADD Applications	<b>4</b>			
<b>ENGT 250</b>	Introduction to Parametric Modeling 3D Applications for Mechanical Design	<b>4</b>			
<b>ENGT 122</b>	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	<b>3</b>			
<b>ENGT 123</b>	Intermediate Engineering Design: Descriptive Geometry	<b>2</b>			
<b>ENGT 200</b>	*Intermediate CAD Modeling for Design & Production	<b>4</b>			
<b>ENGT 131</b>	*Advanced Engineering Design: Manufacturing Applications of Technical Drawing	<b>4</b>			
<b>ENGT 231</b>	*Advanced Engineering Design: Product Design and Presentation	<b>4</b>			
<b>Choose a minimum of 4 units from the following courses:</b>					
<b>ENGT 270</b>	*Advanced 3D Parametric Modeling and Prototype Applications	<b>4</b>			
<b>ENGT 280</b> or <b>ARCH 280</b>	*Advanced MicroStation for CADD & BIMM Applications	<b>4</b>			
<b>ENGT 290</b>	Cooperative Work Experience/Internship for Drafting Related Fields	<b>4</b>			
<b>Total major units needed for Associate of Science</b>		<b>34</b>			
Units Completed					
*Prerequisite/Corequisite					