

DIVISION OF CAREER & WORKFORCE 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 or of "P" if the course was taken on a Pass/No Pass basis, along with either of the following: Rio Hondo College General Education (RHC GE) or California General Education Transfer Curriculum (Cal-GETC). California State University General Education - Breadth (CSU GE) or Intersegmental General Education Transfer Curriculum (IGETC) may be used in some cases; please see a counselor for details.

| Required Courses | Units | N | IP | C |
|--|-----------|---|----|---|
| ARCH/CIV/ENGT 101 Intro. to Technical Drawing & Graphics | 3 | | | |
| ENGT 105 Introduction to Visualization, Sketching, & Rendering | 2 | | | |
| ENGT 150 or ENGT 170 AutoCAD for Basic CADD Applications Microstation for Basic CADD Applications | 4 | | | |
| ENGT 250 Introduction to Parametric Modeling 3D Applications for Mechanical Design | 4 | | | |
| ENGT 122 Intermediate Engineering Design: Geometric Dimensioning & Tolerancing | 3 | | | |
| ENGT 200 *Intermediate CAD Modeling for Design & Production | 4 | | | |
| ENGT 131 *Advanced Engineering Design: Manufacturing Applications of Technical Drawing | 4 | | | |
| ENGT 231 *Product Design and Presentation | 4 | | | |
| Choose a minimum of 6 units from the following courses: | | | | |
| ARCH 215 *Perspective and Rendering | 4 | | | |
| ARCH 235 *Architectural Design Studio | 4 | | | |
| ENGT/ENGR 100 Introduction to Engineering | 2 | | | |
| ENGT 123 Intermediate Engineering Design: Descriptive Geometry | 2 | | | |
| ENGT 270 *Advanced 3D Parametric Modeling and Prototype Applications | 4 | | | |
| ENGT 280 or ARCH 280 *Advanced MicroStation for CADD & BIMM Applications | 4 | | | |
| ENGT 290 Work Experience Education/Internship for Drafting-Related Fields | 4 | | | |
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| Total major units needed for Associate of Science | 28 | | | |
| Units Completed | | | | |
| *Prerequisite/Corequisite | | | | |