

# CADD TECHNOLOGY: MANUFACTURING INDUSTRY ASSOCIATE IN SCIENCE AND CERTIFICATE OF ACHIEVEMENT



Occupational preparation in Computer-Aided Drafting and Design is the primary purpose of the CADD Technology degree program. Students are required to complete two core courses and to select from two potential career paths: Building Design Industry or Manufacturing Industry. Adherence to industrial practices and standards is stressed, including problem solving in a simulated industrial environment.

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Create 3D modeling objects of various orientations including sections and elevations of objects, and identify the relationships of objects or object features to demonstrate visualization proficiency.
- Identify or describe the typical characteristics and uses of common construction or manufacturing materials, products and systems, document them in drawings, and make appropriate selections based on design project requirements.
- Use the latest version of 2D/3D CADD and Solid Modeling software programs (AutoCAD and SolidWorks) to create industry standard architectural or engineering drawings.
- Model the habits and attitudes for success in professional employment as a CADD technician including the preparation and presentation of a professional portfolio.
- Demonstrate computation, communication, critical thinking, and problem-solving skills to perform effectively as a CADD technician in the field of architecture and/or the civil, electronic, mechanical, structural, and surveying engineering fields.

## Career Opportunities

CAD Technician in the field of Architecture and Civil, Electronic, Mechanical, Structural, and Surveying Engineering

## Associate in Science Degree Requirements

Code	Title	Units
<b>Core Curriculum</b>		
CADD-115	Engineering Graphics	3
CADD-120	Introduction to Computer-Aided Drafting and Design	3

CADD-128	Geometric Dimensioning and Tolerancing (GDT)	3
<b>Total Units</b>		<b>9</b>

### Area of Emphasis: Manufacturing Industry

Code	Title	Units
<b>Core Courses</b>		
Select four of the following:		12
CADD-125/ ENGR-125	Solid Modeling Design	
CADD-126	Electronic Drafting	
CADD-129/ ENGR-129	Engineering Solid Modeling	
CADD-132	Advanced Computer-Aided Drafting and Design in 3D Modeling	
Select two of the following:		6
CADD-127/ SURV-127	Survey Drafting Technology	
CADD-131	Architectural Computer-Aided Drafting and Design	
CADD-133	Advanced Architectural Computer-Aided Drafting and Design	
CADD-200/OH-200	Introduction to Computer-Aided Landscape Design	
<b>Total Units</b>		<b>27</b>

Plus General Education Requirements (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>)

## Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.