CADD TECHNOLOGY: BUILDING DESIGN 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
Core Curriculum		
CADD-115	Engineering Graphics	3
CADD-120	Introduction to Computer-Aided Drafting and Design	3
Total Units		**6**

Area of Emphasis: Building Design Industry

Code	Title	Units
Core Courses		6
CADD-127/SURV-127	Survey Drafting Technology	3
CADD-131	Architectural Computer-Aided Drafting and Design	3
CADD-133	Advanced Architectural Computer-Aided Drafting and Design	3
CADD-200/OH-200	Introduction to Computer-Aided Landscape Design	3
Select two of the following:		6
CADD-126	Electronic Drafting	
CADD-128	Geometric Dimensioning and Tolerancing (GDT)	
CADD-132	Advanced Computer-Aided Drafting and Design in 3D Modeling	
CADD-201/OH-201	Advanced Computer-Aided Landscape Design	
Total Units		**24**

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 in CADD Technology in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.