

Computer Aided Design & Drafting Certificate

Program Description

Computer Aided Design and Drafting (CADD) systems are used by drafters to prepare electronic drawings that can be viewed, printed, or programmed directly into automated manufacturing systems. Although CADD is extensively used by drafters, they also need knowledge of traditional drafting techniques in order to fully understand and explain concepts. The Certificate in Computer Aided Design and Drafting (CADD) program is designed to provide knowledge and skills required for employment as an assistant draft craftsperson. The Certificate in CADD is an area emphasized in the Architecture & Construction Career cluster, one out of 16 career clusters selected in Guam's Career & Technical Education Five-Year State Plan.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the Certificate in Computer Aided Design & Drafting program, students will be able to:

1. Demonstrate knowledge and skills needed to design and draft projects ranging from two to three dimensional designs for commercial and residential buildings.
2. Demonstrate basic skills needed to view, print, edit, and create variations of two and three dimensional electronic designs.
3. Develop a professional work ethic needed in the architectural engineering industry.

General Education Requirements					
Course #	Course Name	Credits			
EN110	English Composition	3	AE 160	Computer Aided Design & Drafting (CADD) II	4
MA110A	Finite Mathematics	3	Related General Education & Technical Requirements		
Course #	Course Name	Credits	Course #	Course Name	Credits
Technical Requirements			CE 215	Construction Procedures	3
AE 103	Basic Blueprint Reading	3	CE 225	Construction Planning & Estimating	3
AE 121	Technical Engineering Drawing I	3	CS 101	Introduction to Computer Systems & Information Technology	3
AE 122	Technical Engineering Drawing II	3	MA 161A	College Algebra & Trigonometry I	4
AE 138	Building Codes, Specifications & Construction Management	3	Choose one		
AE 150	Computer Aided Design & Drafting (CADD) I	3	CE 121	Properties of Materials	3
			AE 170	Revit Essentials	
Certificate Total					41