Guam Community College AY 2018-2019 Catalog

Associate of Science in Pre-Architectural Drafting

Program Description

The A.S. in Pre-Architectural Drafting covers pre-architecture, building materials and properties, technical drafting, basic computer aided design and drafting (CADD), architectural computer modeling, and an introductory engineering course. This program prepares students for entry-level employment as CADD operators, draftsmen/women, architect assistants, or as a bridge to enter a career as an Architect which requires a Bachelor's degree or higher. Graduates are prepared for the professional workforce with sound theoretical knowledge and hands-on experience. This program 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 AS in Pre-Architectural 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.
- 4. Create an electronic portfolio that represents proficiency in the development of two and three dimensional computer aided designs.

General Education Requirements						
Course #	Course Name	Credits				
EN 194	Technical Communication	3				
MA161A	College Algebra & Trigonometry I	4				
CSXXX	Computer Literacy Requirement	3				
XXXXX	3-4					
SI141	Applied Physics I	4				
XXXXX	XXXXX Social & Behavioral Sciences Requirement					
	20-21					
Technical Requirements						
Course #	se # Course Name					
AE 103	Basic Blueprint Reading	3				
AE 121	E 121 Technical Engineering Drawing I					
AE 122	Technical Engineering Drawing II	3				
AE 138	AE 138 Building Codes, Specifications & Construction Management					
AE 150 Computer Aided Design & Drafting (CADD) I		3				

AE 160	Computer Aided Design & Drafting (CADD) II	4				
AE 216	Descriptive Geometry	3				
Related General Education & Technical Requirements						
Course #	Course Name	Credits				
CE 121	Properties of Materials	3				
CE 215	Construction Procedures	3				
CE 221	Strength of Materials	3				
CE 225	Construction Planning &	3				
	Estimating					
CS 101	CS 101 Systems & Information Technology					
OR 101	OR 101 Introduction to Engineering Technology					
MA 161B	College Algebra & Trigonometry I	4				
	Total	44				
	64-65					

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Associate of Science in Pre-Architectural Drafting – Semester Breakdown

	Year 1		Year 2			
Semester 1			Semester 3			
Course #	Course Name	Credits	Course #	Course Name	Credits	
AE 103	Basic Blueprint Reading	3	AE 160	Computer Aided Design & Drafting (CADD) II	4	
AE 121	Technical Engineering Drawing I	3	CE 225	Construction Planning & Estimating	3	
CS 101	Introduction to Computer Systems & Information Technology	3	XXXXX	Humanities & Fine Arts Requirement	3-4	
CE 215	Construction Procedures	3	MA 161B	College Algebra & Trigonometry I	4	
xxxxx	Social & Behavioral Sciences	3	OR 101 Introduction to Engineering Technology		3	
Requirement Total		15		Total	17-18	
	Total	13		Total	17 10	
Semester 2			Semester 4			
Course #	Course Name	Credits	Course #	Course Name	Credits	
AE 122	Technical Engineering Drawing II	3	AE 216	Descriptive Geometry	3	
AE 138	Building Codes, Specifications & Construction Management	3	CE 221	Strength of Materials	3	
AE 150	Computer Aided Design & Drafting (CADD) I	3	EN 194	Technical Communication	3	
CE 121	Properties of Materials	3	CSXXX	Computer Literacy Requirement	3	
MA161A	College Algebra & Trigonometry I	4	SI141	Applied Physics I	4	
	Total	16		Total	16	
Year 1 Total				Year 2 Total	33-34	
Program Total				64-65		