Guam Community College AY 2018-2019 Catalog

Associate of Science in Civil Engineering Technology

Program Mission

The mission of the Civil Engineering Technology Program is to train engineering technicians for successful entry and performance in the civil engineering field.

Program Description

The Associate of Science in Civil Engineering Technology is a course of study that prepares students to analyze construction sites, use and maintain equipment, draft plans, and write reports. Technical requirement classes are designed to provide students with fundamentals in surveying, analyzing material strength, and structural drafting and design. This course of study will provide students with an overview of technical drawing, construction management and procedures, planning, and estimating. The student learning outcomes meet the professional standards of technicians in this field.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the AS in Civil Engineering Technology program, students will be able to:

- 1. Properly use surveying equipment and tools and perform applications accordingly.
- 2. Create a construction drawing set consisting of at least six sheets from a design.
- 3. Perform basic techniques and skills using modern engineering tools in the current civil engineering industry.
- 4. Sequence the steps related to the construction process in chronological order.

General Education Requirements						
Course #	Course Name	Credits				
EN 110A	Freshman Composition	3				
	College Algebra & Trigonometry					
MA161A	1	4				
MA 161B	College Algebra & Trigonometry II	3				
SI 141	Applied Physics I	4				
SI 142	Applied Physics II	4				
	Total	22				
Technical/Core Requirements						
Course #	Course Name	Credits				
		Credits				
CE 211	Plane Surveying I	3				
CE 211 CE 221	Plane Surveying I Strength of Materials					
	· •	3				
CE 221	Strength of Materials Computer Aided Design &	3				
CE 221 AE 160	Strength of Materials Computer Aided Design & Drafting (CADD) II	3 3 4				
CE 221 AE 160 CE 213	Strength of Materials Computer Aided Design & Drafting (CADD) II Hydraulics	3 3 4 3				

CE 224	Highways	3			
	Total	16-22			
Rel	ıl				
Requirements					
OR 101	Introduction to Engineering	3			
	Technology	3			
AE 121	Technical Engineering Drawing I	3			
	Technical Engineering Drawing	3			
AE 122	II				
	Building Codes, Specifications &	2			
AE 138	Construction Management	3			
CE 121	Properties of Materials	3			
CE 210	Statics	3			
CE 215	Construction Procedures	3			
	Construction Planning &	2			
CE 225	Estimating	3			
EN 194	Technical Communication	3			
	Total	27			
	65				
Progr	71				

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Associate of Science in Civil Engineering Technology – Semester Breakdown

	Year 1		Year 2		
Semester 1				Semester 3	
Course #	Course Name	Credits	Course #	Course Name	Credits
EN 110	Freshman Composition	3	CE 211	Plane Surveying I	3
MA161A	College Algebra & Trigonometry I	4	SI 142	Applied Physics II	4
AE 121	Technical Engineering Drawing I	3	AE 138	Building Codes, Specifications & Construction Management	3
CE 121	Properties of Materials	3	CE 221	Strength of Materials	3
			CE 213	Hydraulics	3
	Total	16-17		Total	16
	Semester 2		Semester 4		
Course #	Course Name	Credits	Course #	Course Name	Credits
MA161B	College Algebra & Trigonometry II	4	OR 101	Introduction to Engineering Technology	3
SI141	Applied Physics I	4	AE 160	Computer Aided Design & Drafting (CADD) II	4
AE 122	Technical Engineering Drawing II	3	CE 214	Structural Design	3
CE 215	Construction Procedures	3	CE 225	Construction Planning & Estimating	3
			CE 210	Statics	3
			EN 194	Technical Communication	3
	Total	13-15		Total	18
		,			
Year 1 Total		29-32	Year 2 Total		34
				Drogram Total	62.66
				Program Total	63-66