

DEGREE

Associate of Science in Civil Engineering Technology

Total Credit Hours: 61-63

About Associate of Science in Civil Engineering Technology

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.

REQUIREMENTS FOR DEGREE

Freshman Composition Freshman Composition with Instructional Lab Course Name	Credits Credits
Freshman Composition with Instructional Lab Course Name	4 Credits
Freshman Composition with Instructional Lab Course Name	4 Credits
Instructional Lab Course Name	Credits
Callaga Algabra & Trigonomatry I	^
College Algebra & Trigonometry i	3
Critical Thinking for Civic	3
Engagement	
Humanities & fine Arts	3-4
Social & Behavioral Science	3
Requirement	
Applied Physics	4
Course Name	Credits
	Engagement Humanities & fine Arts Social & Behavioral Science Requirement Applied Physics

Associate of Science in Civil Engineering Technology

Published on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

024-2025 College Catalog		
Program Total		61-63
	Information Systems	
SU250	Introduction to Geographic	3
EN194	Technical Communication	3
	Survey Drafting	
SU100	OR	3
CT100 OR	Introduction to Construction Trades	3 OR
MA161B	College Algebra & Trigonometry II	3
CE225	Construction Planning & Estimating	3
CE215	Construction Procedures	3
CE211	Plane Surveying I	3
CE210	Statics	3
AE160	Comp Aided Design & Draft II	3
AE150	Comp Aided Design & Draft I	3
AL 130	Construction Management	5
AE138	Building Codes, Specifications &	3
AE122	Technical Engineering Drawing II	3
AE121	Technical Engineering Drawing I	3
AE103	Basic Blueprint Reading	3

2024-2025 College Catalog

GENERAL REQUIREMENTS FOR ASSOCIATE DEGREE

Recognizing the necessity for students to succeed in the complex and rapidly changing workplace, Guam Community College offers a general education curriculum that introduces students to major areas of knowledge and methods of inquiry. All degree programs require an interdisciplinary general education component that promotes the development of intellectual skills that enable students to become effective learners and informed citizens. Critical thinking, the use of language and computation, appropriate social skills, global awareness and respect for diverse opinions are among the learning outcomes provided in the general education requirements of each program.

Guam Community College believes that general education provides the academic foundation necessary for students to achieve their life goals. General education is intended to offer students a breadth of quality student learning experiences, encourage their respect for cultural heritage, promote their ethical and responsible social behavior and facilitate their life-long learning.

The General Education program strives to foster student learning and skill development in civic engagement, critical thinking, understanding of the relationship between the individual and society, information literacy, oral communication, quantitative reasoning, and written communication.

Guam Community College believes that high quality general education opportunities for all citizens are necessary for democratic principles and practices to exist and for a sound economy to flourish. The College continually scrutinizes the general education curriculum in order to assure that all degrees and certificates granted by the College support this vision of general education and that it serves as a means to inspire hope, opportunity and responsibility in all its constituencies.

Requirements for General Education follow the options described below. Students declared prior to fall 2010 will follow the requirements indicated in the applicable catalog in which they first declared their major program at the College.

Notes on General Education requirements

Students are advised to check the requirements for their specific programs before taking General Education courses.

Courses chosen to meet the general education requirements may not be used to meet the Major Requirements of

Published on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

a student's specific degree program.

The list contains courses with pre-requisites, so students should make their choices carefully and thoughtfully. Students may consult a counselor or an academic advisor for guidance in choosing any of the course options listed.

IMPORTANT NOTE: Some programs require different levels of coursework to meet General Education requirements, please review the individual programs for more information.

requirements, please review the individual	dual programs for more information.					
GENERAL EDUCATION						
Scope 1: Skills for and Application	of Lifelong Learning					
Freshman Composition (Choose one course from the following to meet the required 3-4 credits)						
Course #	Course Name Credits					
EN 110	Freshman Composition	3				
EN110A	Freshman Composition with	4				
	Instructional Lab					
EN 111	Writing for Research	3				
Mathematics (Choose one course from the following to meet the required 3-4 credits)*						
Course #	Course Name	Credits				
MA 110A	Finite Mathematics	3				
MA 115	Fundamentals of College Algebra	3				
MA 161A	College Algebra & Trigonometry I	3				
*Any college level math will be consid	ered for the completion of this category	у				
Literacy for Life Skills (Choose one	course from the following to meet t	the required 3 credits)				
Course #	Course Name	Credits				
CO 110	Critical Thinking for Civic	3				
	Engagement					
CS 151	Windows Applications					
CS 152	Macintosh Applications					
Scope 2: Broad Comprehension of	the Development of Knowledge, Pra	actice and Interpretation				
Humanities & Fine Arts (Choose on	e course from the following to meet	the required 3-4 credits)*				
Course #	Course Name	Credits				
ASL 100	American Sign Language I	4				
CH 110	Chamorro I	4				
ED 265	Culture & Education in Guam	3				
CO 125	Introduction to Human	3				
	Communication and Speech					
EN 210	Introduction to Literature	3				
HI 121	World Civilization (Pre-historic Time	3				
	to 1500)					
HI 122	World Civilization (1500 to Present	3				
	Time)					
HI 176	Guam History	3				
HM 110	Introduction to Community Services	3				
HM 201	Social Welfare & Development	3				
HU 120	Pacific Cultures	3				
HU 220	Guam Cultures & Legends	3				
JA 110	Japanese I	4				
KE 110	Korean I	4				
PI 101	Introduction to Philosophy	3				
TH 101	Introduction to the Theater	3				
VC 101	Introduction to Visual	3				
	Communications					
*Any foreign language, humanities, or	fine arts course will be considered for	the completion of this category				
Natural & Physical Sciences (Choo	se one course and the corresponding					
the required 4 credits)**						
Course #	Course Name	Credits				
SI 101/101L	Introduction to Chemistry (3) &	4				
	Introduction to Chemistry Laboratory					

Associate of Science in Civil Engineering TechnologyPublished on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

1	(1)				
SI 103/103L	Introduction to Marine Biology (3) &				
31 103/103E	Introduction to Marine Biology				
	Laboratory (1)				
SI 105/105L	Introduction to Physical Geology (3)				
31 103/103L	& Introduction to Physical Geology (3)				
	Laboratory (1)				
SI 110/110L	Environmental Biology (3) &				
31 110/110L	Environmental Biology Laboratory				
	(1)				
SI 141	Applied Physics I				
SI 150/150L	Introduction to Microbiology (3) &				
31 130/130L	Introduction to Microbiology				
	Laboratory (1)				
SI131/131L	Human Anatomy & Physiology I (3)				
011011/1012	& Human Anatomy & Physiology I				
	Laboratory (1)				
SI132/132L	Human Anatomy & Physiology II (3)				
	& Human Anatomy & Physiology II				
Laboratory (1)					
**The exception to this would be SI14	1 which does not include a laboratory	requirement			
•	ptance of Responsible Participation	•			
	ose one course from the following t				
Course #	Course Name	Credits			
EC 110	Principles of Economics	3			
PS140	American Government	3			
PY 100	Personal Adjustment	3			
PY 120	General Psychology	3			
PY 125	Interpersonal Relations 3				
SO 130	Introduction to Sociology 3				
CJ 100	Introduction to Criminal Justice	3			
WG 101	Introduction to Women and Gender	3			
	Studies				
	ourse will be considered for the comple	<u> </u>			
Minimum General Education Requi	rements	19			

2024-2025 College Catalog

SUGGESTED SEQUENCE OF COURSES

This suggested sequence of courses is based on the 2024-2025 College Catalog.

Year 1					
Semester 1			Semester 2		
Course	Course Name	Credits	Course	Course Name	Credits
EN	English	3-4	MA161B	College Algebra	3
07400	Requirement		014.44	& Trigonometry II	4
CT100	Introduction to	3 OR	SI141	Applied Physics I	4
SU100	Construction	3			
	Trades				
	Surveying				
	Drafting				
CO110	Critical Thinking	3	AE121	Technical	3
	for Civic			Engineering	
	Engagement			Drawing I	
MA161A	College Algebra	3	AE150	Comp Aided	3
	& Trigonometry I			Design & Draft I	

Published on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

AE103	Basic Blueprint Reading	3	EN194	Technical Communication	3
Total	rteaurig	15-16	Total	Communication	16
	Compostor 2	Ye	ar 2	Semester 4	
0	Semester 3	O	0		One dite
Course	Course Name	Credits	Course	Course Name	Credits
AE138	Building Codes,	3	AE122	Technical	3
	Specifications &			Engineering	
	Construction			Drawing II	
	Management	_			_
AE160	Comp Aided	3	CE225	Construction	3
	Design & Draft II			Planning &	
				Estimating	
CE210	Statics	3		Humanities &	3-4
				Fine Arts	
CE211	Construction	3		Social and	3
	Procedures			Behavorial	
				Sciences	
CE215	Construction	3			
	Procedures				
SU250	Introduction to	3			
	Geographic				
	Information				
	Systems				
Total		18	Total		12-13
Program Total					61-63
024-2025 College	Catalag				

2024-2025 College Catalog

Student Learning Outcomes

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.

Check out some of these amazing Associate of Science in Civil Engineering Technology courses...

AE138 Bldg Codes, Specs & Const Mgt

An interpretation and study of local and national building codes and standards, construction documents and office organization. This course will be of value to anyone who plans to enter, or is presently working in the field of construction.

+ More Info [1]

CE221 Strength of Materials

A study of the relationship between the stresses, strains, deformations, and loads applied to structural members.

Associate of Science in Civil Engineering Technology

Published on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

Axial, torsional, bending and combined stresses are discussed. Stability and the buckling of columns are introduced.

+ More Info [2]

CE211 Plane Surveying I

A beginning course in surveying techniques designed to give the student an understanding of the fundamentals of chaining, leveling, and proper use of the transit. Care and adjustment of instruments and office procedure are also considered. Provision is made by appropriate fieldwork for practical application of the techniques learned.

+ More Info [3]

You may also be interested in these related Programs...



[4]

Certificate in Computer Aided Design & Drafting (CADD) [4]

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.

+ More Info [4]



[5]

Associate of Science in Surveying Technology [5]

The Surveying Technology program prepares the student for immediate employment as a surveying or Geographic Information Systems (GIS) technician and teaches the student knowledge and skills that will enable one to adapt to ever evolving technical and technological changes in geospatial field and office applications.

+ More Info [5]



[6]

Associate of Science in Pre-Architectural Drafting [6]

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

Associate of Science in Civil Engineering TechnologyPublished on GUAM COMMUNITY COLLEGE (https://guamcc.edu)

engineering course.
+ More Info [6]