



DEGREES

Associate of Science in Pre-Architectural Drafting

Total Credit Hours: 66-67

About Associate of Science in Pre-Architectural Drafting

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 in Career & Technical Education.

[REQUIREMENTS FOR DEGREE](#)

General Education Requirements		
Course	Course Name	Credits
EN110	Freshman Composition	3
MA161A	College Algebra & Trigonometry I	4
CS___	Computer Literacy Requirement	3
	Humanities & Fine Arts Requirement	3-4
SI141	Applied Physics I	4
	Social & Behavioral Sciences Requirement	3
Major Requirements		
Course	Course Name	Credits
AE103	Basic Blueprint Reading	3
AE121	Technical Engineering Drawing I	3
AE122	Technical Engineering Drawing II	3
AE138	Building Codes, Specifications & Construction Management	3
AE150	Computer Aided Drafting I (CAD I)	3
AE160	Computer Aided Drafting II (CAD II)	3
AE216	Descriptive Geometry	3
CE121	Properties of Materials	3
CE215	Construction Procedures	3

Associate of Science in Pre-Architectural Drafting

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

CE221	Strength of Materials	3
CE225	Construction Planning & Estimating	3
EN194	Technical Communication	3
CS101	Introduction to Computer Systems & Information Technology	3
OR101	Introduction to Engineering Technology	3
MA161B	College Algebra & Trigonometry I	4
	Program Total	66-67

2019-2020 College Catalog

[GENERAL EDUCATION REQUIREMENTS](#)

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 technical requirements of 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.

General Education Requirements**English Composition (3 Credits)**

Course #	Course Name	Credits
EN 110	Freshman Composition	3
EN 111	Writing for Research	

Mathematics (3-4 Credits)

Course #	Course Name	Credits
MA 110A	Finite Mathematics	3
MA 161A	College Algebra & Trigonometry I	4
MA 161B	College Algebra & Trigonometry II	4

Natural & Physical Sciences (4-6 Credits)

Course #	Course Name	Credits
SI 101/101L	Introduction to Chemistry (3) & Introduction to Chemistry Laboratory (1)	4
SI 103/103L	Introduction to Marine Biology (3) & Introduction to Marine Biology Laboratory (1)	4
SI 105/105L	Introduction to Physical Geology (3) & Introduction to Physical Geology Laboratory (1)	4
SI 110/110L	Environmental Biology (3) & Environmental Biology Laboratory (1)	4
SI 130A/B	Anatomy & Physiology I (3) Anatomy & Physiology II (3)	6
SI 141	Applied Physics I	4

Social & Behavioral Sciences (3 Credits)

Course #	Course Name	Credits
SO 130	Introduction to Sociology	3
PY 120	General Psychology	
PY 125	Interpersonal Relations	
PY 100	Personal Adjustment	
HI 121	History of World Civilization I	

Associate of Science in Pre-Architectural Drafting

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

HI 122 History of World Civilization II

Computer Literacy (3 Credits)

Course #	Course Name	Credits
CS 151	Windows Applications	3
CS 152	Macintosh Applications	

Humanities and Fine Arts (3-4 Credits)

Course #	Course Name	Credits
ASL 100	American Sign Language I	4
ASL 110	American Sign Language II	4
CH 110	Chamorro I	4
CH 111	Chamorro II	4
JA 110	Beginning Japanese I	4
JA 111	Beginning Japanese II	4
EN125	Introduction to Human Communication and Speech	3
EN 210	Introduction to Literature	3
HU 120	Pacific Cultures	3
HU 220	Guam Cultures & Legends	3
PI 101	Introduction to Philosophy	3
VC 101	Introduction to Visual Communications	3
TH 101	Introduction to the Theater	3

Minimum General Education Requirements 19

SUGGESTED SEQUENCE OF COURSES

Year 1					
Course	Semester 1 Course Name	Credits	Course	Semester 2 Course Name	Credits
AE103	Basic Blueprint Reading	3	AE122	Technical Engineering Drawing II	3
AE121	Technical Engineering Drawing I	3	AE138	Building Codes, Specifications & Construction	3

Associate of Science in Pre-Architectural Drafting

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

CS101	Introduction to Computer Systems & Information Technology	3	AE150	Management Computer Aided Drafting I (CAD I)	3
CE215	Construction Procedures Social & Behavioral Sciences Requirement	3	CE121	Properties of Materials	3
EN110	Freshman Composition	3	MA161A	College Algebra & Trigonometry I	4
	Total	18		Total	16
Year 2					
	Semester 3			Semester 4	
Course	Course Name	Credits	Course	Course Name	Credits
AE160	Computer Aided Drafting II (CAD II)	3	AE216	Descriptive Geometry	3
CE225	Construction Planning & Estimating	3	CE221	Strength of Materials	3
	Humanities & Fine Arts Requirement	3-4	EN194	Technical Communication	3
MA161B	College Algebra & Trigonometry II	4	CS___	Computer Literacy Requirement	3
OR101	Introduction to Engineering Technology	3	SI141	Applied Physics I	4
	Total	16-17		Total	16
	Year 1 Total	34		Year 2 Total	32-33
				Program Total	66-67

2019-2020 College Catalog

Student Learning Outcomes

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.

Check out some of these amazing Associate of Science in Pre-Architectural Drafting courses...

CE215 Construction Procedures

A study of construction organization, building codes, foundations, construction materials, methods and techniques of cast-in-place reinforced concrete, precast and pre-stressed concrete, steel and masonry construction, wood and plastics, thermal and moisture protection and building equipment.

[+ More Info](#) [1]

CE225 Construction Planning & Estimating

This course covers methods of estimating construction costs including excavation, highway, structures, piling and foundations; methods to determine qualities of materials, equipment, labor, and money required for construction projects; characteristics and capabilities of work equipment; methods of obtaining unit cost of in place construction; and field reporting practices and responsibilities of field inspection.

[+ More Info](#) [2]

AE160 Comp Aided Design & Draft II

This course builds on the topics covered in AE150 and presents intermediate editing techniques. This course covers the fundamentals of how to utilize Computer Aided Design and Drafting (CADD) to create and manage a set of construction documents for a single building project. Students will gain knowledge and practical experience leading to entry-level jobs by performing many of the duties of an architectural or engineering CADD operator.

[+ 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 Civil Engineering Technology](#) [6]

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.

[+ More Info](#) [6]