



DEGREES

Associate of Science in Surveying Technology

Total Credit Hours: 68

About Associate of Science in Surveying Technology

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. The graduate will be prepared to face the challenge of modern Surveying and GIS practice. The program emphasizes applications-based approaches and provides an overview of the geospatial fields of surveying, mapping, and GIS and prepares the student for further study and for the Level 3 Certified Survey Technician examination prepared by the American Congress of Surveying and Mapping-National Society of Professional Surveyors (ACSM/NSPS).

REQUIREMENTS FOR DEGREE

General Education Requirements

Course	Course Name	Credits
EN110	Freshman Composition	3
MA161A	College Algebra & Trigonometry I	4
SO130	Introduction to Sociology	3
CS151	Windows Applications	3
PY120	General Psychology	3
SI141	Applied Physics I	4

Major Requirements

Course	Course Name	Credits
AE121	Technical Engineering Drawing I	3
AE150	Computer Aided Drafting I (CAD I)	3
CE211	Plane Surveying I	3
CE222	Plane Surveying II	3
CS101	Introduction to Computer Systems & Information Technology	3
HL130	First Aid & Safety	1
MA161B	College Algebra & Trigonometry II	4
OA101	Keyboarding and Document Processing	3
SU100	Surveying Drafting	3
SU101	Surveying Problems I	3

SU230	Advanced Surveying	3
SU240	Boundary Law I	3
SU241	Boundary Law II	3
SU250	Introduction to Geographic Information Systems	3
SU251	Advanced Geographic Information Systems	3
SU280	Special Topics in Geographic Information Systems	3
SU292	Surveying Practicum	1
	Program Total	68

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	

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HI 121	History of World Civilization I
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](#)

Associate of Science in Surveying Technology

Year 1					
		Semester 1		Semester 2	
Course	Course Name	Credits	Course	Course Name	Credits
EN110	Freshman Composition	3	MA161B	College Algebra & Trigonometry II	4
MA161A	College Algebra	4	CE222	Plane Surveying	3

Associate of Science in Surveying Technology

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CS101	& Trigonometry I Introduction to Computer Systems & Information Technology	3	OA101	II Keyboarding and Document Processing	3
CE211	Plane Surveying I	3	AE150	Computer Aided Drafting I (CAD I)	3
AE121	Technical Engineering Drawing I	3	SU101	Surveying Problems I	3
			SU100	Surveying Drafting	3
	Total	16		Total	19
Year 2					
	Semester 3			Semester 4	
Course	Course Name	Credits	Course	Course Name	Credits
CS151	Windows Applications	3	SU251	Advanced Geographic Information Systems	3
SI141	Applied Physics I	4	PY120	General Psychology	3
SU250	Introduction to Geographic Information Systems	3	SU280	Special Topics in Geographic Information Systems	3
SU240	Boundary Law I	3	SO130	Introduction to Sociology	3
SU230	Advanced Surveying	3	HL130	First Aid & Safety	1
			SU292	Surveying Practicum	1
			SU241	Boundary Law II	3
	Total	16		Total	17
	Year 1 Total	35		Year 2 Total	33
				Program Total	68

2019-2020 College Catalog

[Student Learning Outcomes](#)

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

1. Demonstrate preparedness to enter productive technical position in the geospatial fields of surveying, mapping, and Geographic Information Systems.
2. Successfully pass the American Congress of Surveying and Mapping-National Society of Professional Surveyors (ACSM/NSPS) Level 3 Certified Survey Technician examination.
3. Develop a professional work ethic needed in the surveying industry.
4. Demonstrate ability to utilize modern measurement technologies to acquire spatial data and employ industry-standard software to solve technical problems.

Check out some of these amazing Associate of Science in Surveying Technology

courses...

SU280 Special Topics in Geographic Information Systems

This course will introduce students to the applications of Geographic Information Systems (GIS) in cadastral and land information systems and in land use planning. Geographic data is increasingly important in understanding society and the environment. Using advanced tools and software, students will have an opportunity to focus on local and global planning problems.

[+ More Info](#) [1]

SU251 Advanced Geographic Information Systems

This course is a more advanced study of Geographic Information Systems (GIS) with particular emphasis on manipulation and analysis of raster data. This course will also provide introduction to ArcGIS Spatial Analyst and 3D Analyst.

[+ More Info](#) [2]

SU240 Boundary Law I

This course introduces the concepts of boundary control and legal principles. Topics covered include proportionate measurement, rights in land, junior/senior title rights, retracement of original surveys, deed first/survey first, common and case law, ranking/prioritizing evidence, controlling monuments and corners, error in legal descriptions, and plats and case studies.

[+ 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 Pre-Architectural Drafting](#) [5]

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.

[+ 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]