

DEGREES

Associate of Science in Computer Science

Total Credit Hours: 60-62

About Associate of Science in Computer Science

The Associate of Science in Computer Science will provide opportunities for students to work as system analysts who design computer systems for processing information, programmers who write instructions and translate them into a machine readable language, computer operators who monitor and control computer systems and retrieve results, and data entry personnel who enter information and instructions into the computer.

REQUIREMENTS FOR DEGREE

General Education Requirements

Course	Course Name	Credits
EN110	English Composition	3
MA110A	Finite Mathematics	3
CS151	Windows Applications	3
	Social Behavioral Sciences Requirement	3
	Humanities & Fine Arts Requirement	3-4
SI__	Natural & Physical Sciences Requirement	4

Major Requirements

Course	Course Name	Credits
CS101	Introduction to Computer Systems & Information Technology	3
CS104	Visual Basic Programming	3
CS112	Introduction to Linux	3
CS203	Systems Analysis & Design	3
CS204	C ++ Programming	3
CS205	Network Communications	4
CS206	Java I	3
CS211	JavaScript Programming	3
CS212	Python Programming	3
CS213	PHP Programming with MySQL	3
CS299	Computer Science Capstone	4

Associate of Science in Computer Science

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OA211	Business Communication	3
Computer Science Elective (Choose 1)		
OA210	Database Management Systems	3-4
EE211	IT Essentials	
OA101	Keyboarding and Document Processing	
Program Total		60-62

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	
HI 122	History of World Civilization II	

Associate of Science in Computer Science

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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

Semester 1			Semester 2		
Course	Course Name	Credits	Course	Course Name	Credits
CS101	Introduction to Comp Systems & Info Tech	3		Social & Behavioral Sciences Requirement	3
CS211	JavaScript Programming	3	CS212	Python Programming	3
CS151	Windows Applications	3	CS213	PHP Programming with MySQL	3

Associate of Science in Computer Science

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EN110	English Composition	3	CS205	Network Communications	4
MA110A	Finite Mathematics	3		Computer Science Elective	3-4
Total		15		Total	16-17
Year 2			Year 2		
Semester 3			Semester 4		
Course	Course Name	Credits	Course	Course Name	Credits
CS206	Java I	3	CS299	Computer Science Capstone	4
CS112	Introduction to Linux	3	OA211	Business Communication	3
CS104	Visual Basic Programming	3		Humanities & Fine Arts Requirement	3-4
CS204	C ++ Programming	3	SI___	Natural & Physical Sciences Requirement	4
CS203	Systems Analysis & Design	3			
	Total	15		Total	14-15
Year 1 Total		31-32	Year 2 Total		29-30
Program Total					60-62

2019-2020 College Catalog

[Student Learning Outcomes](#)

Upon successful completion of the AS in Computer Science program, students will be able to:

1. Apply concepts and knowledge in the core areas of computer science.
2. Distinguish among basic networking systems, operating systems, and database structures.
3. Write code using programming languages, to include Java, Python, C++, PHP with MySQL and JavaScript.

Check out some of these amazing Associate of Science in Computer Science courses...

CS205 Network Communications

Networking has become the foundation of the modern world. The interconnection of computers, individuals, and society as a whole has become interdependent. The students will obtain the basic knowledge on Local Area Networks (LANs), Wide Area Networks (WANs), the Internet and the Cloud. They will be able to design a simple network such as a local area network. They will also learn how to keep up with the changing hardware and software and how to maintain networks and expand them as needed.

[+ More Info](#) [1]

CS203 Systems Analysis & Design

This course will emphasize systems analysis and stress information flow as the best approaches to understanding business data processing requirements. Computer hardware/software, systems design, and systems management will be described. Organizational aspects will be explained and examples of various systems will be presented.

[+ More Info](#) [2]

CS112 Introduction to Linux

Introduction to Linux course presents students with an open source alternative to Windows operating system. This course discusses installation, simple administrations, and usage of Linux systems as both workstation and server. Questions about where to find, how to install and configure, and how to use open source software will be covered.

[+ More Info](#) [3]

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



[4]

[Associate of Science in Supervision & Management](#) [4]

The Supervision and Management program prepares students for entry-level positions and employment in the field of supervision and management. The program is designed for students who want to learn, update and augment existing knowledge and skills and/or acquire cutting-edge technical and managerial skills; it is also designed for current and future leaders, supervisors, and managers who desire the latest skills to be effective and productive in their respective fields.

[+ More Info](#) [4]

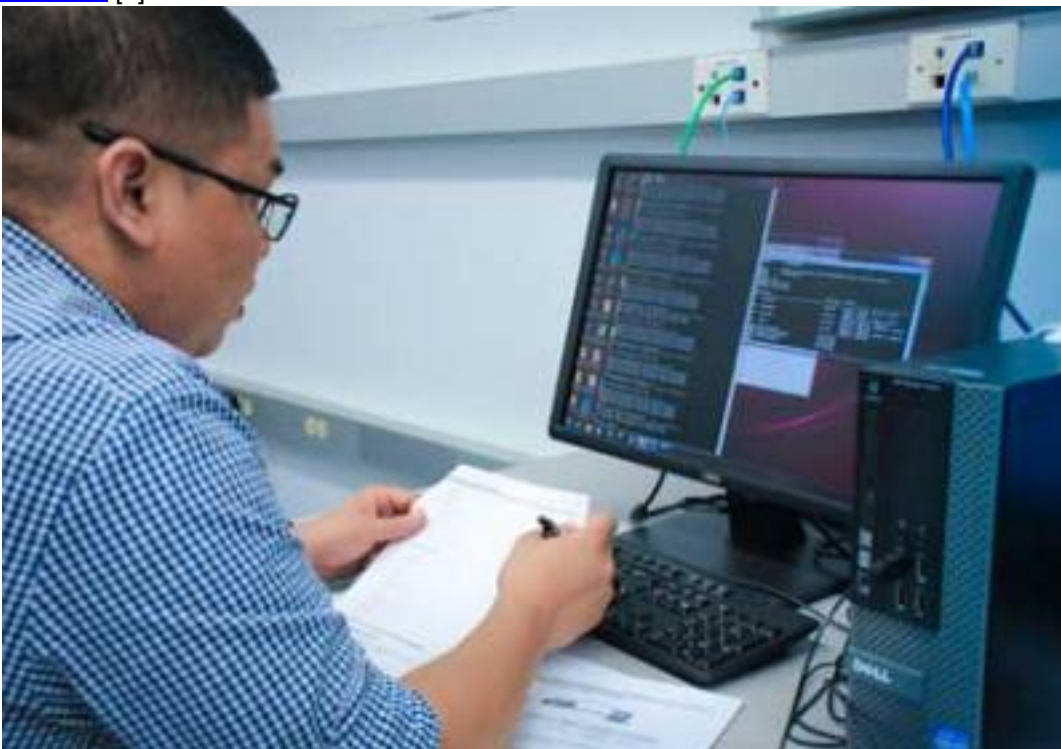


[5]

[Cisco Certified Network Professional \(CCNP\) Industry Certification](#) [5]

The courses listed below will prepare the student to take Cisco's CCNP exam. The CCNP certification indicates advanced knowledge of networks. These courses train the student to install, configure, and troubleshoot local and wide area networks for enterprise organizations with networks from 100 to more than 500 nodes. The content emphasizes topics such as security, converged networks, quality of service (QoS), virtual private networks (VPN) and broadband technologies. Coursework must be taken in sequence. After successful completion of the four professional networking courses, a student will be ready to take the Cisco CCNP exam.

[+ More Info](#) [5]



[6]

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[Associate of Science in Computer Networking](#) [6]

The Associate of Science in Computer Networking is a program of study that prepares students for entry-level network technicians, computer technicians, and fiber and copper Cable Installers in the field of Information Technology (IT). Technical Requirement classes are designed to give students a firm foundation in the basics of computers, networking, and information systems. Elective courses allow the students to further specialize.

[+ More Info](#) [6]