

INFORMATION TECHNOLOGY, ASSOCIATE OF SCIENCE DEGREE

Banner Code: 3_AS_INFOT

Control Number: 20378

Financial Aid Eligible

This Associate of Science in Information Technology (IT) provides students a comprehensive foundation in the field of information technology, focusing on operating systems, networking, and cloud architecture. This program prepares students for entry-level IT roles, including Network Administrator, IT Support Specialist, Cloud Administration Specialist, and Computer Systems Analyst. Key topics include computer networking fundamentals, network and system security, introductory programming, server administration, cloud architecture, and security policies and procedures. Through hands-on exercises and technical writing assignments, students develop practical, in-demand skills essential for success in the IT workforce.

Program Level Student Learning Outcomes

Upon completion of this program, students will be able to:

1. Demonstrate the ability to locate technical resources to solve problems with networking, systems, and cloud solutions.
2. Demonstrate proficiency with various software packages to solve common networking, system, and cloud problems
3. Demonstrate the ability to design and implement solutions for networking, system, and cloud operations.

Review the Associate in Science and Associate in Arts Graduation Requirements (<https://catalog.cccd.edu/coastline/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/coastline/general-education/>) requirements.

Course	Title	Units
Required Core		
Complete the following:		
IT C104	IT Fundamentals (Tech+)	4
or IT C110	Computer Hardware and Software (A+ Essentials)	
CYBR C101	Introduction to Cybersecurity	3
IT C128	Computer Networking Principles (Network +)	3
or IT C201	Introduction to Networking (Cisco CCNA 1)	
IT C158	Contemporary Operating Systems (Server+)	3
CIS C157	Introduction to Python Programming	3
IT C198	Cloud Foundations	3
Electives		
Select three courses from the following:		
IT C191	Linux Operating System Principles (Linux+)	
IT C201	Introduction to Networking (Cisco CCNA 1)	1

Course	Title	Units
IT C202	Essentials of Routing, Switching, and Wireless (Cisco CCNA 2)	
IT C203	Enterprise Networking, Security, and Automation (Cisco CCNA 3)	
IT C248	Wireless Networking	
IT C275	AI Integration: Local and Cloud Solutions	
IT C295	Cloud Architecture and Networking	
Units Required for Major		28
Local General Education or CalGETC pattern		varies
Electives to Satisfy Unit Requirement		varies
Total Units		60-62

¹ This course can only be applied once, as either a required course or as an elective.