

# INFORMATION TECHNOLOGY, ASSOCIATE OF SCIENCE DEGREE

**Banner Code:** 3\_AS\_INFOT

**Control Number:** 20378

**Financial Aid Eligible**

This program provides students with a solid background in the field of information technology and computer networking. The program courses help students prepare for entry-level information technology positions, such as Network Administrator, Information Technology Support Specialist, and Computer Systems Analyst. Topics include computer networking fundamentals, computer and network security, introductory programming, server administration, and security policies and procedures. The program courses emphasize hands-on and technical writing assignments to help students develop in-demand skills for the information technology 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 hardware and software.
2. Demonstrate proficiency with various software packages to solve common networking problems to design and implement a workable solution.
3. Build and maintain secure networks.

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

Course	Title	Units
<b>Required Core</b>		
Complete the following:		
IT C104	IT Fundamentals	4
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
<b>Electives</b>		
Select three courses from the following:		
IT C191	Linux Operating System Principles (Linux+)	
IT C201	Introduction to Networking (Cisco CCNA 1) 1	
IT C202	Essentials of Routing, Switching, and Wireless (Cisco CCNA 2)	
IT C203	Enterprise Networking, Security, and Automation (Cisco CCNA 3)	

Course	Title	Units
IT C248	Wireless Networking	
IT C295	Cloud Architecture and Networking	
<i>Units Required for Major</i>		28
Local General Education, CSU General education, or IGETC pattern		varies
Electives to Satisfy Unit Requirement		varies
<b>Total Units</b>		<b>60</b>

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