

COMPUTER NETWORKING: CISCO, ASSOCIATE OF SCIENCE DEGREE

3_AS_CNCIS

The Computer Networking: Cisco program will give the student a solid background in the field of Computer Networking. The focus on Cisco courses helps prepare students for the CCNA Certification Exam and for entry-level Networking positions. Courses are hands-on intensive and cover OSI and TCP/IP models, IPv4 and IPv6, cabling, router and switch configurations, routing protocols, LAN switching, RIP, OSPF, EIGRP, Frame Relay, variable length subnet masking, NAT, DHCP, and WAN design.

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 using theories learned in the classroom to design and implement a workable solution.
3. Build and maintain secure networks.

Associate Degree Requirements

Unit Requirement

Complete at least 60 units of acceptable college work with a minimum of 12 units completed in residence at Coastline. Earn an overall grade point average of 2.0 or higher from all colleges attended and a 2.0 or higher grade point average at Coastline.

*Students must be in good academic standing (not on probation and/or disqualification) during the semester graduation is petitioned.

Program of Study

Complete the required courses in one of the programs as detailed in the Academic/Career/Certificate Programs section of this catalog. All coursework must be completed with a grade of C or higher.

General Education

Complete one of the three General Education options below:

Option 1 — Coastline General Education: designed for students pursuing an Associate degree and who may or may not be planning to transfer to a four-year university. The degree is transferable to many colleges and universities.

Option 2—CSU GE Breadth: designed for students who are planning to transfer to a university in the CSU system. It may also be appropriate for transfer to some independent colleges and universities.

Option 3—IGETC: designed for students who are planning to transfer to a university in the CSU or UC system. It also may be appropriate for transfer to some independent colleges and universities.

Global and Multicultural Studies Requirement

Complete at least 2.5 units from any Global and Multicultural Studies courses.

Course	Title	Units
Required Courses		
Students will complete all of the following:		
CST C116A	A+ Essentials Hardware	3
CST C128	Network+	3
CST C201D	CCNA 1: Introduction to Networks (ITN)	3
CST C202D	CCNA 2: Switching, Routing, and Wireless Essentials	3
CST C203D	CCNA 3: Enterprise Networking, Security, and Automation	3
CST C230	Introduction to Security	3
Select one course from the following:		
CST C177A	Configuring Microsoft Windows 10	3
CST C191	CompTIA Linux+	3
CST C198	Amazon Web Services (AWS) Cloud Foundations	3
Total Units		21

Requirement	Units
Total Units for Major Preparation	21
Degree Option 1, 2, or 3	Varies
Electives to satisfy unit requirement	Varies
Total Degree Units	60