

# COMPUTER NETWORK TECHNOLOGY

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## Computer Network Technology: Associate in Science (AS)

Associate in Science in Computer Network Technology  
The Associate in Science in Computer Networking Technology prepares students to design, administer, maintain, and troubleshoot networks of different sizes. Students learn a diverse array of skills, including specification preparation, network management, network design, equipment and system sales, and software development. Laboratory courses provide students with hands-on experience to demonstrate the principles of enterprise networking. Courses provide learning opportunities for students new to the field, as well as for those who are experienced professionals. Specialized courses are also among the optional electives in this program, available to help students prepare for Cisco Certified Network Associate (CCNA), Cybersecurity, and Microsoft Certified Solutions Associate (MCSA)

### Program Learning Outcomes:

Students will design and plan a network infrastructure to support specific user and business requirements.

Students will implement enterprise networks with advanced routing and switching strategies.

Students will manage and troubleshoot enterprise networks.

### Career/Transfer Opportunities:

Career opportunities include the following: System Administrator, Network Technician, Network Administrator, and Network Analyst.

### To earn this degree, students must meet the following requirements:

1. Completion of 60 degree applicable units with an overall GPA of 2.0.
2. Completion of a minimum of 18 semester units in the major with a grade of C (or P) or better.
3. Completion of the AA/AS Graduation Requirements, CSU GE-B or IGETC.

### Core Requirements (12 units):

#### Complete all of the following

		Units
CIT 012	Introduction to Networking (Network +)	4.0
CIT 021	Cisco Network Fundamentals (Cisco-1)	4.0
CIT 022	Routing Protocols and Concepts (Cisco-2)	4.0

### Elective (12 units): Complete a minimum of twelve units from the following

		Units
CIT 011	Introduction to Computer Hardware and Software (A+)	4.0
CIT0 13	AWS 1 Cloud Practitioner- Foundational	3.0
CIT0 14	AWS 2 Solutions Architect- Associate	4.0
CIT 016	IT Security and Ethical Hacking	4.0
CIT 017	Cyber Security Essentials	4.0
CIT 018	CCNA Cyber Security Operations	4.0
CIT 023	Scaling Networks (Cisco-3)	4.0
CIT 024	Connecting Networks (Cisco-4)	4.0
CIT 078	Microsoft Server Essentials 1	4.0

### Required Units for the Major:

**24.0**

Completion of General Education Requirements and electives as needed to reach 60 units.

### Total Required Units:

**60.0**