

COMPUTER AND NETWORKING TECHNOLOGY

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2023-2024 CATALOG

DESCRIPTION

Computer and Network Technology program builds a solid foundation in computer and networking theory and applications. The training includes basic electronics, network cabling and infrastructure, computer and networking hardware, desktop and server operating systems, wireless configuration and administration and computer and network diagnostic tools. The goal of the degree is to provide broad training that will prepare a student to install, configure, troubleshoot and administrate all types of computer and network hardware and associated operating systems. Each course in the program is aligned with industry certifications including CompTIA A+, Cisco CCNA, Microsoft Desktop and Server Administration, FOA Copper and Fiber Cabling, and CWNA Wireless certifications. The curriculum is primarily designed for students who are seeking entry-level information and communication technology skills for positions such as network administrator, network engineer, network technician, computer technicians, network installer, and help desk technician.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

An Associate Degree, depending on the focus of study, is designed to prepare students for transfer into upper division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each major-specific course required for the degree with at least a "C" grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

A Certificate Program is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

A noncredit **Certificate of Completion** means a document confirming that a student has completed a noncredit educational program of noncredit courses that prepares students to progress in a career path or to take degree-applicable credit courses.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Specialization (C.S.)
- Certificate of Completion (C.C.)

CAREER OPPORTUNITIES

- Computer Repair Specialist
- Computer Technical Support
- Networking Technician
- Wireless Configuration Specialist

CONTACT

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ASSOCIATE DEGREE PROGRAM

Computer And Networking Technology — Associate in Science

The Computer and Network Technology program builds a solid foundation in computer and networking theory and applications. The training includes basic electronics, network cabling and infrastructure, computer and networking hardware, desktop and server operating systems, wireless configuration and administration and computer and network diagnostic tools. The goal of the degree is to provide broad training that will prepare a student to install, configure, troubleshoot and administrate all types of computer and network hardware and associated operating systems. Each course in the program is aligned with industry certification objectives including CompTIA A+, CompTIA Security+, Cisco CCENT, Microsoft Desktop and Server Administration, FOA Premises Cabling Certifications.

Required Courses (30-33 credits)

CNET 219	Network Infrastructure Fundamentals	4
CNET 221	Computer Workstation Administration	3
CNET 235	Cyber Security Fundamentals	4
CNET 253	Computer Technician Fundamentals	3
CNET 254	Server Maintenance And Administration	4
CNET 260	Networking Fundamentals	2.5
CNET 261	Router Theory And Technology	2.5
CIS 201	Introduction To Computer Science	3
EET 113	Electronics For Computer Technicians	3
or EET 213. . . .	Electronics Fundamentals	(6)
PDS 171.	Team Building	0.5
PDS 178.	Decision Making & Problem Solving	0.5
Total Credits:		30 - 33

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CERTIFICATE PROGRAMS

Computer Networking Support — Certificate of Specialization

This program prepares students for the Cisco Certified Entry Level Network Technician (CCENT) exam. This is the premiere entry level networking certification that will enable students to begin or advance their career in the IT industry specializing in network maintenance and administration.

Required Courses (9 units)

CNET 260	Networking Fundamentals	2.5
CNET 261	Router Theory And Technology.	2.5
CNET 235	Cyber Security Fundamentals.	4
Total Credits:		9

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TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:
www.ASSIST.org
 CSU System Information:
www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:
www.cuesta.edu/student/studentservices/finaid

Computer Support Specialist — Certificate of Specialization

The Computer Support Specialist Certificate prepares students for entry level positions in computer repair and operating system administration for both desktop and server applications. The courses are aligned with, and help prepare for, the industry standard certifications CompTIA A+, Microsoft Workstation and Microsoft Server Configuration certifications.

Required Courses (10 credits)

CNET 221	Computer Workstation Administration	3
CNET 253	Computer Technician Fundamentals	3
CNET 254	Server Maintenance And Administration	4
Total Credits:		10

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Network Infrastructure Support — Certificate of Specialization

The Network Infrastructure Specialist certificate prepares students for entry level jobs as a network cable installer and key elements of computer and network technician duties. The courses are aligned with the industry standard certifications.

Required Courses (9.5 credits)

CNET 219	Network Infrastructure Fundamentals	4
CNET 260	Networking Fundamentals	2.5
EET 169	Residential Wiring	3
Total Credits:		9.5

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Noncredit Computer Technician Internship Preparation —

Certificate of Completion

This entry level certificate will prepare students for a computer technician internship.

Required Courses (0.0 credits)

CNET 735	Computer System Security	108
CNET 753	Computer Technician Fundamentals	90
CNET 760	Networking Fundamentals	63
CNET 761	Router Theory And Technology	63
Total Hours:		324

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