

## PROGRAM: Computer Networking Systems Technician

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### Program Description:

Computer network systems technicians link the hardware and software that comprise computer data communications networks. They install, configure and maintain network components, work on client workstations, servers, domain controllers, shared printers, cables, and routers. They maintain network equipment, applications, data and user interfaces and workstations as well as troubleshoot local and wide area networks. Desktop, server and network administration positions are needed in all industries due to the ongoing movement towards computer automation. Students are encouraged to spend additional hours of study to obtain Microsoft, Cisco, and CompTIA A+, certifications. Possible certifications students can obtain include COMP TIA A+, Security +, Microsoft MCP, MCSA, MCSE, Cisco CCENT, or CCNA.

For program costs and fees refer to the catalog TUITION AND FEES PAGE.

### Learning Outcomes:

1. Design a small or medium sized computer network including media types, end devices and interconnecting devices that meets a customer's specific needs
2. Perform basic tasks expected of a network administrator including management of user accounts, shared resources and network security
3. Perform basic configurations on routers and Ethernet switches
4. Perform operational tasks within a Linux environment, such as the creation and management of files, folders and accounts
5. Perform standard DNS and DHCP management operations, such as setup, modification and troubleshooting
6. Construct simple computer scripts that accomplish a given task
7. Define basic network security issues and possible solution

## Computer Network Support Technician Certificate of Competency (65 credits)

### Note:

**Required credits are 50, not 45 and General Education Courses are required in addition making the CoC 65 credits**

### Required Courses

QRT. 1	CNST201	Cisco Network Fundamentals	5
	INFO101	Computer Application Essentials	5
	INFO104	A+ Essentials	5
QTR. 2	CNST202	Cisco Routing Protocols and Concepts	5
	INFO105	A+ Practical	5
	INFO120	Client Operating System	5
QTR. 3	CNST212	Cisco LAN Switching and Wireless	5
	CNST220	Cloud Services	5
	INFO205	Security I	5

CNST212	Cisco LAN Switching and Wireless	5
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**General Education Requirements**

Communications		5 credits required
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*Choices:*

ENGL175

ENGL&amp;101 English Composition I

Humanities/Social Sciences/Natural Sciences/Other		5 credits required
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*Choices:*

BIOL&amp;160 General Biology

BIOL&amp;175 Human Biology With Lab

BIOL&amp;241 Anatomy &amp; Physiology I

BIOL&amp;242 Human A&amp;P II

BIOL&amp;260 Microbiology

CHEM&amp;121 Introduction Chemistry

CHEM&amp;131 Introduction To Organic/Biochemistry

CMST&amp;102 Intro To Mass Media

CMST&amp;152 Intercultural Communication

CMST&amp;210 Interpersonal Communication

CMST&amp;220 Public Speaking

ECON&amp;201 Microeconomics

NUTR&amp;101 Intro To Nutrition

POLS&amp;101 Intro To Political Science

PSYC&amp;100 General Psychology

PSYC&amp;200 Lifespan Psychology

SOC&amp;101 Intro To Sociology

Quantitative		5 credits required
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*Choices:*

MATH172 Applied Business Math

MATH&amp;141 Precalculus I

MATH&amp;142 Precalculus li

MATH&amp;146 Introduction To Statistics

MATH&151	Calculus I
MATH&152	Calculus II

Note: See a Career Advisor prior to choosing courses that meet general education requirements.