

Associate of Applied Science - Computer Networking Technology

Program Description

This program is designed to provide students with the necessary skills to gain employment as an information technology professional in the field of networking technology. Emphasis is placed on managing and supporting desktop computers, servers, and network operating systems, and designing and supporting complex wired and wireless network infrastructures. Students interested in college transfer for Bachelor degrees in Information Technology or Technology Management should see an academic advisor.

Program Contacts

- Program Director: Greg Tomsho (greg.tomsho@yc.edu), telephone: (928) 776-2104
- Dean: Stacey Hilton (stacey.hilton@yc.edu), telephone: (928) 717-7775
- Instructional Assistant: Jessee Porter (jessee.porter@yc.edu), telephone: (928) 776-2312

Program Outcomes

Upon successful completion of the Computer Networking Technology Degree program, the learner will be able to:

1. Describe and configure the hardware and software used in a small- to medium- sized computer network. (CNT 100)
2. Maintain and repair personal computers. (CNT 110)
3. Discuss the methods and operation of local and wide area networks. (CNT 115)
4. Perform administrative and troubleshooting tasks on Windows server operating systems. (CNT 120)
5. Perform administrative and troubleshooting tasks on Windows client operating systems. (CNT 121)
6. Manage and maintain a Microsoft Windows Server Active Directory environment. (CNT 122)
7. Manage and support a Microsoft Windows Server network infrastructure. (CNT 123)
8. Configure and implement network security. (CNT 135)
9. Describe the function of TCP/IP and the OSI model and related devices. (CNT 140)
10. Configure Cisco routing technologies. (CNT 150)
11. Configure Cisco switching and wireless technologies. (CNT 160)
12. Configure and describe wide area network access technologies. (CNT 170)
13. Analyze, design, implement, and present a networking project. (CNT 294)

Program Requirements

A minimum of 67 credit hours is required to complete the Computer Networking Technology Degree.

Course	Course Title	Credit Hours
I. General Education		
A. Foundation Studies (12 credits)		
1. College Composition or Applied Communication - Select Option a or b:		
a. Writing (6 credits)		
Choose two courses from approved list		
b. Writing AND Communication (6 credits)		
Choose one course from each list		
2. Numeracy (3 credits)		
3. Critical Thinking (3 credits)		
B. Area Studies (7 credits)		
1. Physical and Biological Science (4 credits)		
2. Behavioral OR Social Science (3 credits)		
Choose one course from either list		
II. Computer Networking Technology Requirements		
CNT100	Intro to Computer Networking	3
CNT110	A+ Comp Tech Certification	4
CNT115	Network+: Networking Tech Cert	4
CNT120	Intro to Windows Server	3
CNT121	Windows Client Operating System	3
CNT122	Windows Server I	4

Course	Course Title	Credit Hours
CNT123	Windows Server II	3
CNT135	Security+ Implement/Maintain	3
CNT140	Cisco Networking Fundamentals	4
CNT150	Cisco Network Router Tech	3
CNT160	Cisco LAN Switching & Wireless	3
CNT170	Accessing the WAN	3
CNT294	CNT Project	2
III. Related Requirements		
BSA102	Career Search and Success	1
IV. Electives: Select a minimum of 5 credits from the following:		
CNT130	Linux +: Linux Oper Sys Cert	4
CNT155	Wireless Netwrkg Fundamentals	3
CNT180	Web Site Implement and Mngt	3
CNT185	IT Project Management	2
CNT220	Windows Server III	3
CNT296	Internship: Computer Network	3
CSA161	Intro to Computer Science	3
CSA164	C# Programming Fundamentals	3
CSA167	PHP and MySQL Programming	3
CSA282	Microcomputer Database	3