Overview
The Networking Professional certificate program is designed to give information
technical professionals a path to complete industry certification while advancing their
skills. Students should have experience in information technology or telecomмуnications.

Special Feature
Friendly, skilled instructors with an emphasis for a hands-on teaching environment will
teach the courses. Topics within the certificate will help prepare the student for industry
certification in CompTIA Network+, A+, Security+, and the Cisco Certified Networking
Associate (CCNA). Taking three certifications exams is a requirement of the certificate program.

Student Profile
As a Networking Professional Specialist certificate student, you should be near
completion, or have completed a degree in information technology or telecommunications. Students completing Cisco
1-4, will receive credit for CCNA 1-4 Prep and Networking Fundamentals in this certificate.

Preparation for Admission
The following experiences will help you prepare for this certificate:
• Network hardware configuration
• Router setup and configuration
• Switch configuration
• PC hardware installation and troubleshooting
• Network management
• Operating System Management

Outcomes
Employers will expect you, after completing this certificate, to:
• Configure hardware and software.
• Identify security issues.
• Plan and implement routers into TCP/IP network infrastructure.
• Plan, implement, and support wired and wireless networks.

Career Outlook
After achieving this certificate, you will be ready for your career as a:
• Network/Technical Coordinator
• Network Administrator/Manager
• Network Technician or Support Specialist
• Computer Support Specialist

Course Descriptions

10150125
CompTIA A+ Computer Essentials - Credits: 2
The objective of the CompTIA A+ certification course will be to pass the CompTIA A+ - Computer Essentials certification exam. Those holding the CompTIA A+ certification have a broad base of knowledge and competency in core operating system technologies including installation, configuration, diagnosing, preventive maintenance, and basic networking. The CompTIA A+ exams test the following areas of knowledge: operating system fundamentals, installation, configuration, and upgrading; diagnosing and troubleshooting; and networking. As this class focuses on preparing for the exams, prospective students should have experience installing and working with operating systems. Students are required to take the CompTIA A+ certification test as part of this course. PREREQUSITE: 10154109 PC Troubleshooting/Upgrading or equivalent work experience.

10150126
CompTIA A+ IT Technician - Credits: 2
The objective of the CompTIA A+ certification course will be to pass the CompTIA A+ - IT Technician certification course. Those holding the CompTIA A+ certification have a broad base of knowledge and competency in core operating system technologies including installation, configuration, diagnosing, preventive maintenance, and basic networking. The CompTIA A+ exams test the following areas of knowledge: operating system fundamentals, installation, configuration, and upgrading; diagnosing and troubleshooting; and networking. As this class focuses on preparing for the exams, prospective students should have experience installing and working with operating system, computer memory, disk controllers, CPU's, network cards, and video systems. Students are required to take the CompTIA A+ certification test as part of this course. PREREQUSITE: 10154109 PC Troubleshooting/Upgrading or equivalent work experience.

10150150
Networking Fundamentals - Credits: 2
Networking Fundamentals is designed to prepare the learner for the Network+ certification exam. This course introduces the concepts and topics covered on the Network+ certification exam. The curriculum uses hands-on labs and projects designed to familiarize the learner with the most common products and procedures used to design, install, and support a computer data network. Learners will create peer-to-peer, LAN, and wireless networks, and set up and configure basic file and print servers. Learners will participate in a capstone project that involves the design and configuration of a multisite Cisco routed network.

10150152
IT Security - Credits: 2
This course will cover hardware, software, and the physical environment related to IT security. The processes of defense, prevention, detection, and response will be studied. Typical types of attacks will be studied and potential solutions or defenses will be explored. Networking and Operating System experience is required along with a code of ethics.

10150151
CompTIA Network+ Certification Prep - Credits: 2
Earning a CompTIA Network+ certification demonstrates that a candidate can describe the features and functions of networking components and possesses the knowledge and skills needed to install, configure, manage and troubleshoot basic networking hardware, protocols, and services. IP addressing techniques and principles will be covered in detail. The exam tests technical ability in the areas of media and topologies, protocols and standards, network implementation, and network support. The new exam also covers new technologies such as wireless networking and gigabit Ethernet. Networking fundamentals background required.

10150153
CCNA 1 Prep - Credits: 2
CCNA 1 Prep is a preparation course. This is one of four courses offered for CCNA certification. Topics covered include network terminology and protocols, local-area networks (LANs), wide-area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, Ethernet, Internet Protocol (IP) addressing, and networking standards.

Curriculum

Number Course Title Credits
10150125 CompTIA A+ Computer Essentials ▲ 2
10150126 CompTIA A+ IT Technician ▲ 2
10150150 Networking Fundamentals or 2
10150152 IT Security 2
10150151 CompTIA Network+ Certification Prep 2
10150153 CCNA 1 Prep 2
10150154 CCNA 2 Prep ▲ 2
10150155 CCNA 3 Prep ▲ 2
10150156 CCNA 4 Prep ▲ 2

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▲ This course requires a prerequisite and/or corequisite, and must be completed with a grade of “C-” or better.