Program: Computer Networking Systems Technician

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 (45 credits)

Note: Required credits are 45 and General Education Courses are required in addition making the CoC 60 credits

Required Courses

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>QRT. 1</td>
<td>CNST201</td>
<td>Cisco Network Fundamentals</td>
<td>5</td>
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<tr>
<td></td>
<td>INFO101</td>
<td>Computer Application Essentials</td>
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<td></td>
<td>INFO104</td>
<td>A+ Essentials</td>
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<td>QTR. 2</td>
<td>CNST202</td>
<td>Cisco Routing Protocols and Concepts</td>
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<td></td>
<td>INFO105</td>
<td>A+ Practical</td>
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<td></td>
<td>INFO120</td>
<td>Client Operating System</td>
<td>5</td>
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<td>QTR. 3</td>
<td>CNST212</td>
<td>Cisco LAN Switching and Wireless</td>
<td>5</td>
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<tr>
<td></td>
<td>CNST220</td>
<td>Cloud Services</td>
<td>5</td>
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<tr>
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<td>INFO205</td>
<td>Security I</td>
<td>5</td>
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</tbody>
</table>
|         | CNST212  | Cisco LAN Switching and Wireless         | 5       | repeat
General Education Requirements

Communications 5 credits required

**Choices:**

- ENGL175
- ENGL&101  ENGLISH COMPOSITION I

Humanities/Social Sciences/Natural Sciences/Other 5 credits required

**Choices:**

- BIOL&160  GENERAL BIOLOGY
- BIOL&175  HUMAN BIOLOGY WITH LAB
- BIOL&241  ANATOMY & PHYSIOLOGY I
- BIOL&242  HUMAN A&P II
- BIOL&260  MICROBIOLOGY
- CHEM&121  INTRODUCTION CHEMISTRY
- CHEM&131  INTRODUCTION TO ORGANIC/BIOCHEMISTRY
- CMST&102  INTRO TO MASS MEDIA
- CMST&152  INTERCULTURAL COMMUNICATION
- CMST&210  INTERPERSONAL COMMUNICATION
- CMST&220  PUBLIC SPEAKING
- ECON&201  MICROCENOMICS
- NUTR&101  INTRO TO NUTRITION
- POLS&101  INTRO TO POLITICAL SCIENCE
- PSYC&100  GENERAL PSYCHOLOGY
- PSYC&200  LIFESPAN PSYCHOLOGY
- SOC&101  INTRO TO SOCIOLOGY

Quantitative 5 credits required

**Choices:**

- MATH172  APPLIED BUSINESS MATH
- MATH&141  PRECALCULUS I
- MATH&142  PRECALCULUS II
- MATH&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.