

## COMPUTER MAINTENANCE/NETWORKING

### Program Description

The Computer Maintenance/Networking program prepares individuals for entering occupations in the information technology (IT) field that involve troubleshooting, repair, and maintenance of personal computers (PCs). Skills are developed by hands-on practice in electronic circuit testing, computer assembly, computer upgrades and configurations and computer networks. Networking classes provide opportunities for students to design, build, and maintain computer inter-networks.

Successful completion of the Cisco system classes (I and II) will allow students to take the national exam for certifying as a CCENT (Cisco Certified Entry Network Technician). Students also prepare for industry standard certifications, including the Cisco Certified Network Associate (CCNA™), A+, and the Building Industries Consulting Service International, Inc., (BICSI) Installer Level I exam. Individuals interested in only the Cisco classes may enroll in Networking as a stand-alone program.

### Student Learning Outcomes

Successful completers of this program will be able to:

- install, maintain, and troubleshoot computer hardware.
- setup, maintain, and troubleshoot networks.
- setup, install, maintain and troubleshoot Microsoft-based desktop and server operating systems.
- create and maintain a secure network.
- Install and maintain physical cabling infrastructure of a network.
- apply knowledge, skills, and abilities to obtain the CompTIA A+ certification.
- apply knowledge, skills, and abilities to obtain the CompTIA Servers+ certification.
- apply knowledge, skills, and abilities to obtain the Cisco Certified Entry-level Network Technician certification.

The program length for a full-time student in Computer Maintenance/Networking is two (2) semesters and one (1) summer term. The program costs are approximately \$3,170 for tuition and fees and approximately \$1,105 for books and supplies.

### GRADUATION REQUIREMENTS

(Suggested Schedule)

<u>Fall Semester</u>			<b>Credit Hours</b>
MAT	2214	Advanced Industrial Mathematics	4
CMP	1012	Tech Network Servers	2
CMP	1024	Tech Computer Maintenance/Core Hardware	4
CFA	1103	Tech Computer Fundamentals (or higher-level computer course)	3
CMP	2074	Tech Cisco CENT I <b>OR</b>	4
		CMP 1034 Tech Networking I	
		<b>Exit: Computer Repair and Networking</b>	<b>17</b>
		<b>Certificate of Proficiency</b>	
<u>Spring Semester</u>			
CMP	1053	Tech Network Security	3
CMP	1064	Tech Operating Systems	4
CMP	1504	Tech Fundamentals of Voice and Data Cabling	4
CMP	2084	Tech Cisco CENT II <b>OR</b>	4
		CMP 1044 Tech Networking II	
COM	1203	Technical Communications (or higher-level composition course)	3
<u>Summer I Term</u>			
CMP	1802	Tech Computer Peripheral Maintenance	2
COM	1102	Employability Skills/Ethics	2
CMP	1092	Tech Project Management	2
		<b>Exit: Computer Maintenance/Networking</b>	<b>41</b>
		<b>Technical Certificate</b>	