

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) and small business networks. Skills are developed by hands-on practice in computer assembly, computer upgrades/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 partial certification for the Cisco Certified Network Associate (CCNA™) and A+.

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 \$4,700 for tuition and fees and approximately \$1,400 for books and supplies.

Student Learning Outcomes

Successful completers of this program will be able to:

- Install, maintain, and troubleshoot computer hardware.
- Set up, maintain, and troubleshoot networks.
- Set up, 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.

GRADUATION REQUIREMENTS

(Suggested Schedule)

		<u>Fall Semester</u>	<u>Credit Hours</u>
CFA	1103	Tech Computer Fundamentals OR	3
CIS	1013	**Introduction to Computer-based Systems	
CMP	1063	Tech Operating Systems	3
CMP	1404	Tech IT Essentials I: PC Hardware and Software	4
MAT	2213	**Advanced Industrial Mathematics	3
CMP	2074	Tech Cisco CENT I OR	4
CMP	1034	Tech Networking I	
		Exit: Computer Repair and Networking Certificate of Proficiency	17
		<u>Spring Semester</u>	
CMP	1012	Tech Network Servers	2
CMP	1053	Tech Network Security	3
CMP	2084	Tech Cisco CENT II OR	4
CMP	1044	Tech Networking II	4
CMP	2604	Tech IT Essentials II: Network Operating Systems	4
COM	1203	Technical Communications OR	3
ENGL	1013	**Composition I	
		<u>Summer I Term</u>	
CMP	1092	Tech Project Management	2
CMP	1502	Tech Fundamentals of Voice and Data Cabling	2
COM	1102	Employability Skills/Ethics	2
		Exit: Computer Maintenance/Networking Technical Certificate	39

**Required for Associate Degree