

COMPUTER NETWORKING TECHNOLOGY, Certificate Program - 4230

CIP Code: 11.0901

Technology Division

Students prepare to work in the field of computer networking. They are trained to design, install, configure, and maintain networks. The program includes the study of data communications, telecommunications, Networking Operating System fundamentals, TCP/IP, cabling, terminations, network connections, cable testers, network analyzers, PBX equipment, NIC's, hubs, bridges, switches, and routers. The program is vendor neutral and coordinates with national standards from the National Association of Communication Systems Engineers and the Computing Technology Industry Association. The complete programs are available only at the Harrisburg Campus.

Career Opportunities

Computer networking encompasses a broad range of jobs and job titles for CNT graduates including network support technicians, network planning analysts, network coordinators, telecommunications specialists, information technology specialists, consultants, market representatives, and related information technologist positions.

(SOC Code: 15-1071 Network and Computer Systems Administrators)

Link to Occupational profiles on O*NET <http://www.onetcodeconnector.org/>

Application and Admission information <http://www.hacc.edu/StudentServices/Registrar/HowtoApplyandRegister/index.cfm>

Competency Profile

This curriculum is designed to prepare students to:

- Demonstrate the underlying concepts of network communications
- Utilize current terminology of networking when preparing reports and proposals
- Apply the correct hardware/software technology for effective use in a business environment
- Compare the latest LAN, WAN, and MAN technologies
- Demonstrate the installation, maintenance, and technical support of popular networking hardware/software systems
- Apply network troubleshooting and diagnostic techniques
- Compare the common networking architectures and the network operating systems
- Employ network design and network management skills
- Demonstrate the correct use of client/server systems
- Demonstrate the correct use of peer-to-peer systems

PROGRAM REQUIREMENTS (TOTAL CREDITS = 37)

General Education	Major		Other Required Courses	
	CIS 222 Introduction to Windows Servers	3	Program Specific Electives*	6
	CIS 223 Intermediate Windows Servers or			6
	CIS 226 Novell NetWare Administration or			
	CIS 264 Fundamentals of Linux Administration or			
	CIS 265 Fundamentals of UNIX Administration	3		
	CIS 227 Technical Support	3		
	CNT 120 Network Communication Technology I	3		
	CNT 125 Network Communication Technology II	4		
	CNT 130 Fundamentals of Telecommunication	3		
	CNT 140 The Physical Network	3		
	CNT 220 Internetworking	5		
	ELEC 126 Installing & Troubleshooting PC's	4		
		31		

* Select program specific electives from the following: CAD 114, 115, 124, 125, 134; CIS 223, 226, 264, 265; CISE 200, 210, 220, 230; CNT 240, 260, 291; ELEC 100, 101, 106, 108, 111, 211, 213, 215

Program Costs: \$10,983.00

<http://www.hacc.edu/FinancialAid/FinancialAidBasics/Cost-of-Attendance.cfm>

On-time Completion Rate: 50%

Job Placement Rate:

Median Federal Loan Debt: \$1, 123.00

Median Alternative Loan Debt: \$0