

# Computer Networking

## Certificate - Cisco Emphasis

This one-year certificate program prepares students for employment in network troubleshooting, networking coordination and networking analysis in a variety of industries who use Cisco networking equipment. The Cisco Emphasis Certificate exposes students to a wide variety of networking protocols and their implementation on Cisco Routers and Switches. It prepares them for immediate Certified Cisco Networking Associate (CCNA) certification as well as for the more traditional roles of network troubleshooter and network manager in activities that are centered on support of Cisco networking equipment.

The credits earned in this certificate program can be used toward the Associate of Applied Science Degree in Computer Networking.

Graduates are able to:

- understand how telecommunications systems provide for the transmission and reception of both voice and data signals (messages)
- comprehend the many LAN and WAN Protocols and Network Operating Systems in use today with particular emphasis on TCP/IP
- configure, manage and troubleshoot Cisco Routers and Switches as well as Cisco's Operating System, IOS
- perform basic networking troubleshooting using both hardware and software techniques
- design, implement and monitor local area networks and wide area networks with Cisco Equipment

### Curriculum Certificate Program

Course		Credits
ENGL-111	English I	3
CISY-103	Computer Concepts and Programming	4
CISY-132	Systems Analysis & Design	3
CISY-270	Introduction to Cisco Networking	3
CISY-271	Intermediate Cisco Networking	3
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CISY-217	Operating Systems	3
CISY-237	UNIX and Linux	3
CISY-272	Advanced Cisco Networking I	3
CISY-273	Advanced Cisco Networking II	3
	CIS Elective <sup>1</sup> <b>or</b>	
CISY-292	Computer Science Cooperative Education I	3

**Total Credits 31**

<sup>1</sup> Any CISY-200 level course.

**NOTE:** Mathematics Proficiency - This certificate requires a minimum math proficiency through Elementary Algebra (MATH-020).