

Computer Networking

Degree Type

Associate in Science

The Computer Networking associate degree provides a solid foundation to begin or advance in a career in information technology. Additionally, it can serve as a launch point for those who wish to continue on to a bachelor degree. This degree is for those who wish to develop the “hands on” skills that are required to function in a high tech environment. The core courses all integrate conceptual understanding with practical lab applications.

This program covers all the requirements to obtain the CCNA (Cisco Certified Networking Associate), CompTIA Linux+ and AWS Cloud practitioner certifications.

In addition to technical skills, the successful graduates learn the skills required to communicate and interact successfully with end users, customers, colleagues and supervisors.

Upon the completion of the degree in Computer Networking, graduates will be able to:

1. Be able to design, assemble, configure, and troubleshoot computer hardware.
2. Perform configuration on basic network devices for wired and wireless networks.
3. Perform basic system administration including management of system accounts for Windows and Linux.
4. Create basic configuration scripts (python, bash, bat).
5. Describe the function of the major AWS services and use the AWS console for basic configuration tasks.
6. Work well as a member of a team.
7. Use critical thinking skills to solve networking and computer systems problems.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

First Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
ENGL101N	College Composition	4	0	4
CSCN101N	Computer Architecture and Operating Systems	2	3	3
CSCN104N	Internet of Things	2	2	3
CSCN116N	Networking Basics	2	2	3
	Behavioral Social Science or History/ Political Science			3

First Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CSCI120N	Introduction to Scripting - Python	2	2	3
CSCI170N	Linux Essentials	2	2	3
CSCN216N	Switching, Routing, & Wireless Essentials	3	3	4
	Elective in Major			3
	Quantitative Literacy			4

Second Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
CSCN202N	Cloud Computing	2	2	3
CSCN217N	Enterprise Networking, Security and Automation	2	2	3
ENGL122N	Technical Writing	3	0	3
	Science Core Requirement			4
	Elective in Major			3

Second Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CSCN204N	Administering Windows Servers	2	2	3
	Elective in Major			3
	Humanities/Fine Arts/Philosophy or Global Awareness			3
	CSCN290N or CSCN286N			3
Total Credits				61