

# Information Technology - Network Administration Track

## **Degree Type**

Associate of Applied Science

The Associate of Applied Science degree in Information Technology: Network Administration focuses on the computerized technologies that are critical to business and industry. This program provides students with the ability to configure a variety of network devices, such as routers and switches. Graduates will have an understanding of local and wide area network technologies, telecommunications, wireless communications, and network connectivity. In addition to an understanding of telecommunications, students will also obtain comprehensive training via the Cisco Networking Academy classes as part of the curriculum. After completion of the program, students will be prepared to take the CCNA certification exam. Students additionally will cover aspects of the Microsoft Certified Solutions Associate (MCSA) and CompTIA Security+ and A+ certifications.

## Career Opportunities

1. IT Manager
2. Network Specialist
3. Network Manager
4. Network Architect
5. Systems Analyst

## Program Objectives

**Upon completion of the program, the student will be able to:**

1. Demonstrate general computer and networking knowledge
2. Demonstrate knowledge of network operations in preparation for the CCNA certification exam.
3. Configure and troubleshoot network devices and security implementations.
4. Identify, organize, plan and allocate resources effectively in a telecommunications environment.
5. Apply strong communication and critical thinking skills, including reading, writing, organizing, evaluating, problem solving and presentation skills in Network Administration.

## Obtaining the Degree

**To earn the Associate of Applied Science degree, students must:**

- Matriculate into the program.
- Satisfactorily complete all degree requirements, including General Education and Major Requirements.

# General Education Requirements

Course Code	Title	Credits
ACP 100	Academic and Career Planning	1
CIT 100	Microcomputer Applications	3
COM 101	Public Speaking	3
ENG 110	English Composition I**	3
LIF 111	Health and Wellness	3
MAT 145	College Algebra	3
	Elective - Science 3 or 4 Credits	3-4
	Elective - Social Science	3

## Science Electives (Choose one)

Course Code	Title	Credits
AST 100	Introduction to Astronomy	3
BIO 102	Life Science	3
	BIO 104 and BIO 114	4
CHM 106	Introductory Chemistry	4
CHM 120	General Chemistry I	4
	GLG 102 and GLG 103	4
	PHY 102 and PHY 103	4
	PHY 110 and PHY 111	4

## Social Science Electives (Choose one)

*(See Social Science Track I and Social Science Track II under Liberal Arts and Sciences for course options)*

## Required Courses

Course Code	Title	Credits
CIT 165	Hardware Components	3
CIT 173	Windows Enterprise Desktop Operating Systems	3
CIT 196	Database Management	3
CIT 202	Management Information Systems	3
CIT 285	Information Technology Project	2
CIT 290	Information Technology Internship	3
CIT 292	Network Security	3
CNT 100	Networking Basics	5
CNT 200	Routing and Switching Essentials	5
CNT 210	Advanced Routing and Switching Technology	5
CNT 220	WAN Technologies	5
	<b>Total Credits</b>	<b>62-63</b>

### Course Sequencing

## Fall 1

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
ACP 100	Academic and Career Planning	1
ENG 110	English Composition I**	3
CIT 100	Microcomputer Applications	3
CIT 173	Windows Enterprise Desktop Operating Systems	3
CNT 100	Networking Basics	5

## Spring 1

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIT 165	Hardware Components	3
CIT 196	Database Management	3
CNT 200	Routing and Switching Essentials	5
LIF 111	Health and Wellness	3
MAT 145	College Algebra	3

## Fall 2

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIT 292	Network Security	3
CNT 210	Advanced Routing and Switching Technology	5
COM 101	Public Speaking	3
	Elective - Science 3 or 4 Credits	3-4
	Elective - Social Science	3

## Spring 2

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>
CIT 202	Management Information Systems	3
CIT 285	Information Technology Project	2
CIT 290	Information Technology Internship	3
CNT 220	WAN Technologies	5