

# Information Technology CP

## CISCO Certified Network Associate – Concentration

Career & Technical Division

### Program Description:

The Cisco Networking Academy at Mountwest Community & Technical College offers Cisco Certified Network Associate (CCNA) training that prepares individuals to install, configure, and operate LAN, WAN, and dial access services for enterprise organizations with networks from 100 to more than 500 nodes. Concepts laboratory exercises focus on IP, Ethernet based LANs, Frame Relay and Serial WANs, interior routing protocols such as RIP and IGRP and exterior protocols such as BGP. The Cisco Networking Academy Program is a comprehensive-learning program that provides students with the IT skills essential in a global economy. The Networking Academy delivers web-based content, online assessment, student performance tracking, hands-on labs, instructor support, and preparation for the CCNA industry-standard certifications.

### Career Outlook:

The U.S. Department of Labor states that Network Systems and Data Communications Analysts will see an increase in employment growth of 53.36% between 2008 and 2018. The computer systems design and related services industry is expected to be one of the top-ten fastest growing industries in the U.S. economy, projected to add more than 115,800 jobs between 2008 and 2018. Professionals and specialists will see the best prospects for employment because they have the higher level skills necessary to stay abreast of rapid changes in technology. ([http://www.bls.gov/emp/ep\\_table\\_103.htm](http://www.bls.gov/emp/ep_table_103.htm)).

### Employment Opportunities:

- Network administrator
- Network engineer
- Systems support technician
- Network designer
- Network security systems designer

### Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics “Occupational Outlook Handbook” found at [www.bls.gov/ooh/](http://www.bls.gov/ooh/).

### Program Admission Requirements:

The college adheres to an open admission policy which means applicants with a high school diploma or a GED are eligible for admission. Applicants with neither a high school diploma nor a GED may be admitted on a conditional basis.

### Career Description:

The U.S. Department of Labor states that Network Systems and Data Communications Analysts analyze, design, test, and evaluate network systems, such as local area networks (LAN), wide area networks (WAN), Internet, intranet, and other data communications systems; perform network modeling, analysis, and planning; research and recommend network and data communications hardware and software. This includes telecommunications specialists who deal with the interfacing of computer and communications equipment. Analysts may supervise computer programmers. (<http://stats.bls.gov/oes/current/oes151081.htm>).

### Contact Information:

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*Our mission is to prepare students for careers, civic responsibility and life-long learning.*

<b>Information Technology Major Code – CI30 • CISCO Certified Network Associate Concentration Code – CI31<sup>1</sup></b>				
Name:			ID Number 942-	
CAPS SCORES:	MATH:	ENGLISH:	READ:	DOE:
COL 101 Faculty:				
Educational Counselor:				
Faculty Advisor:				

**COURSE REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
ENL 111	Written Communication <sup>2</sup>		3				
IT 131	Introduction to Networking		4				
IT 141	Networking Systems II <sup>3</sup>		4				
IT 270	Computer Essentials & App <sup>4</sup>		4				
IT 225	Fundamentals of Wireless LANs <sup>5</sup>		4				
IT 231	Networking Systems III <sup>6</sup>		4				
IT 241	Networking Systems IV <sup>7</sup>		4				
	Math Elective <sup>8</sup>		3				

**DEVELOPMENTAL COURSES REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
	Hours Required for Graduation: 30						

<sup>1</sup> Students are expected to have basic knowledge of computers including operating systems such as Windows 2007 or XP and Microsoft Office 2010 or XP before entering this program. The student must register for IT 101 during his or her first semester or successfully pass a challenge exam for IT 101.

<sup>2</sup> ENL 111 has a prerequisite of placement in 100-level English, and placement in 100-level reading.

<sup>3</sup> IT 141 has a prerequisite of IT 131.

<sup>4</sup> IT 270 has a prerequisite of IT 101 or 102.

<sup>5</sup> IT 225 has a prerequisite of IT 131, or IT 230.

<sup>6</sup> IT 231 has a prerequisite of IT 141.

<sup>7</sup> IT 241 has a prerequisite of IT 231.

<sup>8</sup> Choose from any 100-level or above mathematics course.

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