

COMPUTER INFORMATION SYSTEMS
NETWORK ADMINISTRATION
(UNIX Networks, General Networking, and MSCE)

The department of Computer Information Systems (CIS) offers degrees and certificates in three major areas: Computer Programming, **Network Administration** and Web Developer. See the respective major sheets for additional information about the specific certificates and degrees. A grade of “C” or better is required in all certificate, major and major elective courses.

The CIS Network Administration certificate and degree programs are designed to provide students with the necessary skills to gain employment as a network administrator. Most business computers are being connected in networks. The industry needs skilled people to configure, troubleshoot, and maintain these networks. The Network Administration Program is designed to train students to fill these needs. There are three Associate in Science Degrees specializing in MCSE, General Networking, and UNIX Networks.

Upon completion of the program, students will be able to:

- Recognize the components that constitute a computer information system. Identify various hardware, software, data, computer number systems, and procedures.
- Demonstrate understanding of the impact and application of computers in business, government, and social organizations. Students solve common business problems with computer applications and the internet.
- Receive and process written and oral technology related information. Students Interpret technology communication concepts including wired and wireless networks, servers and clients, users interfaces, operating systems, applications, utilities, and programming languages.
- Recognize the influence of the Internet on business and terms relating to the World Wide Web. Students perform the fundamental functions that operating systems and applications software provides. Students demonstrate skills in word processing, spreadsheets, presentation graphics, and use of Internet. Students will recognize a programming language and demonstrate steps involved in developing an application.
- Demonstrate the ability to work and interact effectively in teams consisting of individuals with differing interests, gender, global backgrounds and professions.
- Demonstrates ability to exercise professional, ethical responsibility in the use of technology in society.

FOR ADDITIONAL INFORMATION, SEE A COUNSELOR, VISIT THE CAREER/TRANSFER CENTER OR CONTACT:

Business and Workforce Development Division
San José City College Web Page

(408) 288-3131
www.sjcc.edu

UNIX Networks

Associate in Science Requirements:**MAJOR REQUIREMENTS:**

CIS	014A	Internet Principles and Protocols	3
CIS	062A	Introduction to PC Hardware and Diagnostics	2
CIS	157	Introduction to UNIX/LINUX	3
CIS	158	UNIX System Administration	3

Approved Major – Complete 24 units from this list:

CIS: 017A, 017B, 017C, 017D, 017E, 018A, 018B, 018C, 018D, 020, 020A, 022, 023, 023A, 024A, 024B, 024C, 036, 041, 047, 054, 055, 059, 060, 062B, 062C, 068, 073, 084, 098

A.S. MAJOR REQUIREMENTS	11
APPROVED MAJOR ELECTIVES	24
GENERAL EDUCATION REQUIREMENTS	24
PHYSICAL ACTIVITY	<u>1</u>
TOTAL REQUIRED UNITS	60

General Networking

Associate in Science Requirements:**MAJOR REQUIREMENTS:**

CIS	014A	Internet Principles and Protocols	3
CIS	017A	Windows	3
CIS	017B	Windows Server	3
CIS	018A	CISCO Network Fundamentals	3
CIS	157	Introduction to UNIX/LINUX	<u>3</u>

Approved Major – Complete 20 units from this list:

CIS: 017C, 017D, 017E, 018B, 018C, 018D, 020, 020A, 022, 023, 023A, 024A, 024B, 024C, 036, 041, 047, 054, 055, 059, 060, 062A, 062B, 062C, 068, 073, 084, 098, 158

A.S. MAJOR REQUIREMENTS	15
APPROVED MAJOR ELECTIVES	20
GENERAL EDUCATION REQUIREMENTS	24
PHYSICAL ACTIVITY	<u>1</u>
TOTAL REQUIRED UNITS	60

MCSE

Associate in Science Requirements:**MAJOR REQUIREMENTS:**

CIS	017A	Windows	3
CIS	017B	Windows Server	3
CIS	017C	Microsoft Windows Server Active Directory	3
CIS	017D	Windows Server Network Infrastructure	3

Complete one of the following:

CIS	017E	Microsoft Exchange Server	
		-OR-	
CIS	068	Administering Microsoft SQL Server	3

Complete 6 units from the following:

CIS	014A	Internet Principles and Protocols	3
CIS	041	Introduction to Computer Information Systems	3
CIS	062A	Introduction to PC Hardware and Diagnostics	2
CIS	062B	A+ Core PC Hardware Technology	2
CIS	062C	A+ Core PC Operating Systems Technology	2
CIS	073	Visual Basic Programming	<u>3</u>

Approved Major Electives - 14 units non-duplicated:

CIS: 014A, 017E, 018A, 018B, 018C, 018D, 020, 020A, 022, 023, 023A, 024A, 024B, 024C, 036, 041, 047, 054, 055, 059, 060, 062A, 062B, 062C, 068, 073, 084, 098, 157, 158

A.S. MAJOR REQUIREMENTS	21
NON-DUPLICATED UNITS FROM APPROVED MAJOR ELECTIVES	14
GENERAL EDUCATION REQUIREMENTS	24
PHYSICAL ACTIVITY	<u>1</u>
TOTAL REQUIRED UNITS	60