

San José City College
Certificate of Achievement
Level 2
2020-2021

COMPUTER INFORMATION SYSTEMS
MCSA, MCSE, CCNA

The department of Computer Information Systems (CIS) offers 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. **Five certificates** specializing in **MCSA, MCSA, CCNA, General Networking, and UNIX Networks** are offered.

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

COMPUTER INFORMATION SYSTEMS
MCSA

<u>CERTIFICATE OF ACHIEVEMENT - Level 2:</u>	<u>UNITS</u>
CIS - MCSA	
CIS 017A Windows	3
CIS 017B Windows Server	3
CIS 017D Microsoft Windows Server Network Infrastructure	3
<u>Select one</u> of the following:	
CIS 017E Microsoft Exchange Server	3
CIS 068 Administering Microsoft SQL Server	3
<u>Choose 6 units</u> from the following:	
CIS 041 Introduction to Computer Information Systems	3
CIS 014A Internet Principles and Protocols	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>
TOTAL REQUIRED UNITS	18

COMPUTER INFORMATION SYSTEMS
CCNA

<u>CERTIFICATE OF ACHIEVEMENT - Level 2:</u>	<u>UNITS</u>
CIS - CCNA	
CIS 018A CCNA R&S: Introduction to Networks	3
CIS 018B CCRN R&S: Routing and Switching Essentials	3
CIS 018C CCNA R&S: Scaling Networks	3
CIS 018D CCNA R&S: Connecting Networks	3
Non-duplicated 6 units from approved major electives	6
<u>Approved Major Electives:</u>	
CIS 014A, 017A, 017B, 017C, 017D, 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	
TOTAL REQUIRED UNITS	18

COMPUTER INFORMATION SYSTEMS
MCSE

<u>CERTIFICATE OF ACHIEVEMENT - LEVEL 2:</u>		<u>UNITS</u>
CIS - MCSE		
CIS 017A	Windows	3
CIS 017B	Windows Server	3
CIS 017C	Microsoft Windows Server Active Directory	3
CIS 017D	Windows Server Network Infrastructure	3
Select one of the following:		
CIS 017E	Microsoft Exchange Server	3
CIS 068	Administering Microsoft SQL Server	3
Choose 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>
TOTAL REQUIRED UNITS		21