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 (408) 288-3131
San José City College Web Page 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:**

A.S. MAJOR REQUIREMENTS 11
APPROVED MAJOR ELECTIVES 24
GENERAL EDUCATION REQUIREMENTS 24
PHYSICAL ACTIVITY 1
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 3

**Approved Major – Complete 20 units from this list:**

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

Prepared by the SJCC Articulation Office and is subject to change without notice. This major sheet should be used for advisory purposes only. See a counselor for assistance in preparing your individual course plan. It is ultimately the individual student's responsibility to ensure that all requirements are met.
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  3

Approved Major Electives - 14 units non-duplicated:

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

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