



Computer Network Administration

Associate in Applied Science Degree (111-113 credits)

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PROGRAM DESCRIPTION: The Computer Network Administration program is designed for persons interested in operating computer networks and provides a broad introduction to the networking field. The courses begin with network theory, computer hardware and an introduction to operating systems. It progresses to server operating systems, the configuration and maintenance of network infrastructure services (such as DNS and DHCP) and enterprise directories (Active Directory). The program proceeds through to cover network security and the principles of routing. It also covers scripting operating system configuration. The program concludes with a capstone course that evaluates and cements concepts learned over the first five quarters. Numerous certification objectives are covered by the program including MCTS, MCITP, Network +, Security +, A+, Cisco CCNA, CCNA Voice, CCNA Wireless and CCNA Security.

CAREER OPPORTUNITIES: The Computer Network Administration Program prepares students for positions in network technical support. Duties include hardware and software support, troubleshooting, customer service and training, user support, email support, and network security. Typical job titles include Network Administrator, Network Technician, Network Engineer and Computer Support Technician. Average salary data can be obtained from Monster.com and other employment websites.

PROGRAM OUTCOMES: South Puget Sound Community College believes that all students need to develop a broad range of abilities that will not only make them more effective in their professional pursuits but will enhance their capacity to relate well to others in their daily lives. Therefore students who complete the program will be able to:

- Demonstrate the following skills standards specific to Computer Network Administration:
 - Perform workstation configuration and software loading.
 - Develop and implement security procedures.
 - Analyze system performance to baseline.
 - Monitor and report component and connectivity problems.
 - Make recommendations for system optimization.
 - Generate reports.
 - Set up and maintain user accounts.
 - Apply maintenance, upgrades and process changes.
 - Perform system backups and restore data.
 - Perform system audits.
 - Document, interpret and report test results.
- Communicate effectively.
- Think logically and critically.
- Evaluate and process quantitative and symbolic data.
- Understand themselves in relation to others in a multicultural world.
- Understand ethical responsibilities and consequences.

AAS DEGREE REQUIREMENTS: Based on placement testing, basic skills and/or pre-college English, Reading, or Math may be required (ENGL 097, READ 097 & MATH 099). Deficiencies must be completed prior to graduation; however, students are strongly encouraged to enroll at the beginning of their education.

Cooperative Work Experience/Internships: Cooperative Work Experience is the internship program at South Puget Sound Community College and offers students an opportunity to receive college credit for paid or unpaid work experience related to their educational goals. This program gives students an opportunity to apply their skills while still in college.

For more information or for an appointment, contact the Cooperative Work Experience/Internship office at (360) 596-5359 (Bldg 25-129A) or at <http://www.spscc.ctc.edu/internship/>

DIVERSITY REQUIREMENT: South Puget Sound Community College requires all new students seeking an Associate Degree to complete a "diversity" course which meets the college criteria for listing as a diversity course and has been approved for such listing by the college Instructional Council prior to the student enrolling in the class.

OFFICE OF CIVIL RIGHTS COMPLIANCE STATEMENT: South Puget Sound Community College's equal opportunity policy prohibits discrimination in our services and in employment against any person on the basis of race or ethnicity, creed, color, national origin, sex, marital status, sexual orientation, age, religion, Vietnam-era or disabled veteran status, or the presence of any sensory, physical or mental disability except in the case of a bona fide occupation qualification. South Puget Sound Community College is an equal opportunity/affirmative action employer and complies with the Americans with Disabilities Act (ADA).

Course	Title	Credits	THE SHADED AREAS WILL BE COMPLETED WITH YOUR ADVISOR			
Core Requirements			Evaluation Notes		NAME: SID:	
CIS 168	Programming Logic	5				
CNA 101	Introduction to Networking: Cisco I	5				
CNA 112	PC Workstation Technical Support	5				
CNA 120	Command Line Interface	3				
CNA 121	Microsoft Workstation	5				
CNA 122	Microsoft Server	5				
CNA 210	Introduction to Network Security	5				
CNA 221	Microsoft Network Infrastructure Management I	5				
CNA 222	Microsoft Network Infrastructure Management II	5				
CNA 232	Microsoft Exchange Server	5				
CNA 233	Microsoft Active Directory	5				
CNA 234	Microsoft Windows Server Administration	5				
CNA 250	Routing and Switching: Cisco II	5				
CNA 251	Advanced Routing and Switching: Cisco III	5				
CNA 260	Windows Scripting	5				
CNA 270	Introduction to Wireless	5				
CNA 275	CCNA Voice	5				
CNA 280	CCNA Security	5				
CNA 296	Managing Network Environments	5				
		93				
Electives			Placement			
To complete the AAS, choose at least 1 courses from the following electives:			Math			
			English			
			Reading			
			Official Evaluation			
CNA 130	Choose one of the following: Introduction to Linux/Unix	5				
CNA 230	Linux/UNIX System Administration	5				
CNA 211	Computer Forensics	5				
CNA 252	Network Design: Cisco IV	5				
CNA 190/290	Cooperative Work Experience	3				
		3-5				
General Education Requirements			College/University	Credit		
Reading/Writing						
ENGL& 101	English Composition I	5				
Speaking/Listening	Choose one of the following:	5				
ENGL& 235	Technical Writing					
CIS 210	Business Communications					
Computation						
CIS 168	Programming Logic		Completed in Core			
Human Relations	Department recommends:	5				
BUS 260	Principles of Management: Diversity					
		15				
			Total Credits Transferred:			