

PROGRAM PLANNING GUIDE

COMPUTER NETWORK ADMINISTRATION Associate in Technical Arts

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 MCP, MCSA, MCSE, Network +, Security +, A+ and a portion of the CCNA. There are opportunities for further study in diverse topics such as advance routing and wireless networking.

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 an ATA in Computer Network Administration will:

- Demonstrate the following skill standards:
 - 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.
- Gather information about, understand, and explain clearly to others concepts relevant to successful performance in the field of Network Administration.
- Think logically and critically and apply these thinking skills to the Network Administration field.
- Communicate effectively in oral, written, and graphic form.
- Apply fundamental quantitative and computation skills.
- Understand themselves and others as they interact in a global environment.
- Demonstrate skills in dealing with differences and managing interpersonal relationships.
- Understand fundamental ethical issues and their related responsibilities and liabilities.

PROGRAM INFORMATION/CONTACTS:

George Neal e-mail gneal@spscc.ctc.edu Phone: (360) 596-5528
Michael Jameson e-mail mjameson@spscc.ctc.edu Phone: (360) 596-5420

PROGRAM REQUIREMENTS: An Associate of Technical Arts degree will be awarded upon successful completion of a minimum of 90 credits in courses numbered 100 or above. All core and general education list requirements must be met.

Basic Skills Requirements:

English, Reading or Math may be required based on placement testing. Students are encouraged to complete basic skills requirements at the beginning of their education. Basic skills deficiencies must be completed prior to graduation.

ENGL 097	Basic Writing II	5 credits
READ 097	Analytical Reading II	5 credits
MATH 099	Intermediate Algebra	5 credits

Core Requirements:

CIS 168	Programming Logic	5 credits
CNA 101	Introduction to Networking	5 credits
CNA 112	PC Workstation Technical Support	5 credits
CNA 120	Command Line Interface	3 credits
CNA 121	Microsoft Workstation	5 credits
CNA 122	Microsoft Server	5 credits

CNA 210	Introduction to Network Security	5 credits
CNA 221	Microsoft Network Infrastructure Management I	5 credits
CNA 222	Microsoft Active Directory	5 credits
CNA 231	Microsoft Network Infrastructure Management II	5 credits
CNA 232	Microsoft Exchange Server	5 credits
CNA 250	Routing and Switching	5 credits
CNA 260	Windows Scripting	5 credits
CNA 296	Managing Network Environments	5 credits
	CORE Credits	68 total

To complete the ATA, choose at least 2 courses from the following courses.

Electives:

LINUX/UNIX OPERATING SYSTEM

CNA 130	Introduction to Linux/Unix	5 credits
CNA 230	Linux/UNIX System Administration	5 credits

CISCO

CNA 251	CISCO Networking I	5 credits
CNA 252	CISCO Networking II	5 credits

DESKTOP SUPPORT

CIS 258	Software Integration and Configuration	5 credits
---------	--	-----------

NETWORK SECURITY

CNA 223	Microsoft Network Security Design	5 credits
---------	-----------------------------------	-----------

WIRELESS

CNA 270	Introduction to Wireless	5 credits
---------	--------------------------	-----------

INTERNSHIP

CNA 190/290	Cooperative Work Experience	3 credits
-------------	-----------------------------	-----------

General Education Requirements:

Complete a minimum of three credits from each of the four categories: Reading/Writing; Listening/Speaking; Computation; and Human Relations. A complete list of courses that satisfy the general education requirements may be obtained from the Advising Center in Building 25.

Reading/Writing:		5 credits
ENGL& 101	English Composition I (formerly WRIT 101)	

Speaking/Listening:		5 credits
ENGL& 235	Technical Writing (formerly TCOM 106)	

Computation:		5 credits
CIS 168	Programming Logic (Completed in Core)	

Human Relations:		5 credits
BUS 260	Principles of Management (recommended)	

Cooperative Work Experience/Internships:

Cooperative Work Experience is the internship program a 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.

The Cooperative Work Experience/Internship Office number is (360) 596-5359. Please call for an appointment.

For more information, contact the Cooperative Work Experience/Internship office at (360) 596-5359 (Bldg 22-204) 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 Instruction Council prior to the student enrolling in the class.

The diversity requirement may be completed within the General Education requirements by choosing one of the bolded courses listed under the Speaking/Listening category or the Human Relations category.

OFFICE OF CIVIL RIGHT COMPLIANCE STATEMENT: South Puget Sound Community College's equal opportunity policy prohibits discrimination in our services and in employment against any person on this 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).

Effective: Summer 2008

Revised: April 15, 2008