Network Technology Management and Administration

Program Description: The Network Technology Management and Administration Program provides students with knowledge essential to implementing and managing a network technology business, including the technical skills needed to participate in the management of Network Operation Centers, Network Technology Departments, and their associated technicians and staff members. The degree offers students the knowledge and expertise needed to work in positions such as Project Manager, Network Administrator, Network Engineer, and Coordinator of Technology. The program learning outcomes are closely linked to international network technology certification standards required by from CompTIA, Cisco and Microsoft.

Student Learning Outcomes:

Upon completion of the Network Technology Management and Administration Degree, students will be able to:

- Analyze and discuss business concepts, structures, and project management techniques relevant to today's workplace
- Identify theories of group dynamics and hone skills specific to working in and managing groups and teams
- Identify the basic knowledge and practical skills needed to install and support computer operating systems
- Install, configure and manage major network server types [i.e., VoIP (Voice over IP), Streaming Video, Web, Database and Remote Access Servers]
- Determine the hardware and software needs for enterprise-level networks, including network setup and the costs involved for equipment, staff and construction
- Configure enterprise-level network devices such as Routers, Switches and Wireless Access Points
- Install Server operating systems to perform various functions (i.e., user accounts, internet access, security gateways and e-mail servers)

Program Entry Requirements: The Network Technology Management and Administration Degree program will be open to all interested full-time, part-time, continuing education and professional development students. Students identified as needing developmental course work must satisfactorily complete the appropriate English and mathematics courses as a part of their degree program.

Program of Study and Graduation Requirements: The minimum number of credits required for graduation is 61. A grade point average of 2.0 is necessary for graduation. It is highly recommended that the degree be completed within a three-year period to ensure up-to-date knowledge and skill acquisition.

Network Technology Management and Administration Degree Course Sequence

Course Number and Name	Prerequisites and Corequisites	Credits	General Education Requirements
FIRST SEMESTER			
CIS 103 - Computer Technology & Concepts		3	Tech Comp
CIS 150 - Network Technology		4	
ENGL 101 - English Composition I		3	ENGL 101
General Elective		3	
Total Credits this Semester		*13*	
SECOND SEMESTER			
SOC 101- Introduction to Sociology or SOC 115 - Women and Men in America or ANTH 112 - Cultural Anthropology	For SOC 115: ENGL 101	3	Social Science American/Global Diversity Interpretive Studies Writing Intensive
ENGL 102 - The Research Paper	ENGL 101 with a "C" grade or higher	3	ENGL 102 Info Lit
MNGT 121 - Introduction to Business		3	
CIS 252 - Windows Server Configuration (offered 7A)	CIS 150	4	
CIS 253 - Windows Server Administration (offered 7B)	CIS 252	4	
Total Credits this Semester		*17*	
THIRD SEMESTER			
FNMT 118-Intermediate Algebra		3	
ENGL 112 - Report and Technical Writing	ENGL 101	3	
CIS 256 - Cisco Routing Technology (offered 7A)	CIS 150	4	
CIS 257 - Advanced Cisco Routing and Switch Technology (offered 7B)	CIS 256	4	
Total for Semester		*14*	
FOURTH SEMESTER			
ASET 130 - Quality Control/Quality Assurance (preferred) or ASET 101 - Science, Technology, and Public Policy	For ASET 130: FMNT 118	3	Natural Science
ENGL 117 - Group and Team Communication	ENGL 101, which may be taken concurrently.	3	Humanities

MNGT 142- Management Information Systems	MNGT 121	3	
CIS 105 - Computer Systems Maintenance		4	
CIS 297 - Network Technology Capstone	CIS 253, CIS 257, MNGT 142 (which may be taken concurrently), ENGL 117 (which may be taken concurrently)	4	
Total for Semester		*17*	
MINIMUM CREDITS NEEDED TO GRADUATE:		**61**	

GENERAL EDUCATION REQUIREMENTS: All general education requirements necessary for graduation are met through the courses in the program as indicated above. Students who wish to take courses that differ from the general education courses indicated above must consult with an advisor or counselor before registering. A more detailed explanation of the College's general education requirements appear at http://ccp.edu/college-catalog/degree-requirements.

For more information, contact: The Division of Business and Technology, Room B2-22, 1700 Spring Garden Street, Philadelphia, PA 19130, Telephone (215) 751-8785 or the College Information Center (215) 751-8010.