

Network and Systems Administration Proficiency Certificate

Description: The courses in the Network and Systems Administration Proficiency Certificate are closely aligned with professional certifications from CompTIA and Cisco and provide students with the knowledge and skills needed for entry-level employment in computer network administration. When completed, the courses may be applied to the Computer Information Systems Information Technology Associate in Applied Science Degree or to the Network Administration Associate in Applied Science Degree.

Industry Certification Preparation:

- CompTIA A+ Certification
- CompTIA Network+ Certification
- CompTIA Server+ Certification
- CISCO CCNA Certification

Student Learning Outcomes:

After completing the courses in the Network and Systems Administration Proficiency Certificate, students will be able to:

- Analyze, diagnose and repair common problems with the Windows operating system on a personal computer and on a network sever.
- Determine the hardware and software needs for a common local area network (LAN) of personal computers, including the time needed to setup the network and the costs involved.
- Set up and maintain a common local area network (LAN) of personal computers with the proper equipment.
- Install and manage user accounts on a personal computer system and on a local area network (LAN) of personal computers.
- Install and support peripheral equipment, such as printers, on a local area network (LAN) of personal computers.

Program Entry Requirements: Students who possess personal computer application skills may test out of CIS 103 - Applied Computer Technology. Students who wish to seek employment as systems analysts may also complete CIS 270 - Systems Analysis and Design.

Program of Study and Graduation Requirements: Successful completion of the program requires a "C" grade or better in each of the courses listed above. In order to receive a "C" grade or better and thus demonstrate competency, students must complete assignments, exams and participate in class activities.

Course Sequence:

Course Number	Prerequisites	Credits
CIS 103 - Applied Computer Technology		3 credits
CIS 105 - Computer Systems Maintenance		4 credits
CIS 150 - Network Technology		4 credits
CIS 252 - Managing Network Servers	CIS 150	4 credits
CIS 256 - Network Routing and Switching	CIS 150	4 credits

Minimum Credits Needed to Graduate: 19

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.

[**Gainful Employment Information:** The Office of Institutional Research will insert gainful employment information.]

Courses and Completion Sequence

The following courses and sequence of courses is designed for the optimal success and completion of the [Network and Systems Administration Proficiency Certificate](#) degree/certificate. Any alterations should be discussed with your academic advisor.

Course Number	Prerequisites	Credits
CIS 103 - Computer Applications & Concepts		3 credits
CIS 105 - Computer Systems Maintenance		4 credits
CIS 150 - Network Technology		4 credits
CIS 252 - Managing Network Servers	CIS 150	4 credits
CIS 256 - Network Routing and Switching	CIS 150	4 credits