

# Computer Information Technology–Networking

Degree Awarded: Associate in Applied Science

## Recommended Course Sequence

First Semester	Credits
ENG 101 Freshman English 1	3
MAT ___ College Algebra or higher	3
CIT 103 Management Information Systems	3
CIT 107 Introduction to C++ Programming	3
CIT 105 Data Communic. & Networking	3
CIT 100 Computer Literacy	3
<b>Second Semester</b>	
ENG 102 Freshman English 2	3
MAT ___ College Trigonometry or higher	3
CIT 112 Computer Hardware and Maint.	4
CIT 116 Networking 1	6
PES 100 Concepts of Physical Wellness	1
<b>Third Semester</b>	
___ ___ Social Science Elective	3
CIT ___ Systems Analysis	3
CIT 225 Database Fundamentals	3
CIT ___ Unix/Linux	3
CIT 203 Networking 2	4
PES ___ Physical Education	1
<b>Fourth Semester</b>	
___ ___ Social Science Elective	3
CIT ___ Systems Design	3
CIT 206 Network Security	3
CIT 230 Internship	3
___ ___ Restricted Elective*	3

Total Credits: 67

### \*Restricted Electives:

- CIT 111 Internet & HTML Programming
- CIT 115 Visual Basic
- Any course approved by department

## Program Description

The Associate in Applied Science degree program in CIT–Networking prepares students for employment in a variety of entry-level careers in computer networking and information technology occupations. The theory and practical experience students gain allows them to enter jobs with highly competitive salaries.

This degree program offers the coursework that provides background information for students to take the CompTIA's A+, Security+, Networking+, Linux+ and CISCO's CNA certification exams. The primary focus of this degree program is networking computer systems including implementation, configuration, maintenance and administration of networking equipment, which includes creation of networking servers. The degree course work introduces students basic computer systems and builds on theoretical and technical knowledge and skills to develop a strong understanding of networking topologies, mediums and medium access techniques in both local area and wide area networks (LANs and WANs). Classes are designed to provide students with hands-on training utilizing state-of-the-art computer facilities. Students are also placed in a work environment in order to provide actual service to a business through the CIT–Networking internship.

Students are encouraged to discuss their future career and/or transfer goals with a CIT–Networking advisor.

## Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)



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## Student Learning Outcomes

Students will:

- install and configure networking equipment.
- implement and configure network protocols.
- troubleshoot PC hardware problems.
- assemble a PC.
- identify and summarize security threats and appropriate actions to minimize those threats.
- install, configure and manage a networking operating system.
- analyze an existing system and determine appropriate systems design implementation strategies.

## Career Opportunities

- banks
- law firms
- medical offices
- hospitals
- small businesses
- government agencies
- corporations
- schools
- colleges
- consulting firms

## Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred to:

- Marist College
- Mount St. Mary College
- SUNY Institute of Technology



## Contact Information

Applied Technology  
Department Chair  
(845) 341-4523  
Admissions Office  
(845) 341-4030

