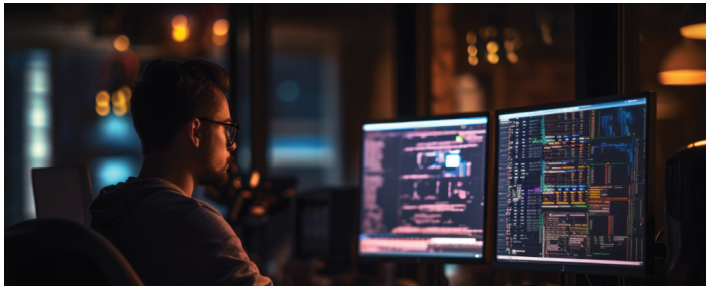# INFORMATION TECHNOLOGY - NETWORKING SOFTWARE, ASSOCIATE OF APPLIED BUSINESS

Students will be prepared for careers dealing with network software systems analysis, planning and implementation to create, manage and support networks. Students will gain the necessary skills to analyze network system needs for design, installation, maintenance and management of network software systems. Skills acquired will assist students in preparing to take industry certification exams.

Program contact: Learn more

This program is available to be completed 100% online.

Learn more about how certificate credits apply to the related degree and about related training programs.

Related Degrees and Certificates

- Electrical/Electronic Engineering Technology with a Concentration in Computer Networking Hardware, Associate of Applied Science
- Cisco, Short-Term Certificate
- IT Support Professional, Certificate of Proficiency
- Information Technology - Cybersecurity, Associate of Applied Business
- Information Technology - Cybersecurity, Post-Degree Professional Certificate

Related Training and Credentials

- Cisco Technical Training Institute
- Cisco Network Support Technician
- CompTIA Certified Computer Support Specialist

Program Admission Requirements

- High School Diploma/GED not required, but highly recommended
- ENG-0995 Applied College Literacies or appropriate score on English Placement Test.
- MATH-0955 Beginning Algebra or qualified Math Placement.

Other Information

- Non-degree students may enroll for individual courses, providing they meet the course-specific prerequisites

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

a. Communicate effectively utilizing verbal, written and presentation skills in-person, on the phone, and via the Internet with all levels in the organization.
b. Communicate appropriately with diverse audiences to provide high level customer service to internal and external constituents.
c. Work independently and effectively within a team to meet the needs of the organization.
d. Operate within diverse business cultures with professionalism, integrity and accountability.
e. Demonstrate ethical behavior and recognize legal issues.
f. Adapt to change within their profession by demonstrating a commitment to continuous learning and the flexibility to deal with different requirements from different clients with a wide range of personality styles and prior computer knowledge.
g. Plan, organize, and prioritize tasks in order to meet project deadlines.
h. Apply analytical, critical and creative thinking and problem solving/troubleshooting techniques to develop effective information technology solutions in the context of business needs.
i. Apply fundamental concepts of computer hardware, operating systems, business applications, networking, security, backup and recovery procedures to troubleshoot, maintain and support PC hardware and software to ensure an efficient and effective operation.
j. Apply principles of networking software to design, install, configure, and maintain secure, fault tolerant operation within a server based network environment, including local and remote access.
k. Sit for A+, Network +, Security + and MCP Certification Exams.

Suggested Semester Sequence

Summer Start		Credit Hours
EET-1015	Introduction to Computer Maintenance and Repair	3
IT-1025	Information Technology Concepts for Programmers	3
Select one of the following:		3
IT-1090	Computer Applications	
IT-109H	Honors Computer Applications	
	Credit Hours	**9**
First Semester		
EET-1035	Operating Systems and Software for PC Technicians	4
EET-1055	Computer Hardware Support	4
IT-1050	Programming Logic	3
ITNT-2300	Networking Fundamentals	3
	Credit Hours	**14**
Second Semester		
ITNT-2320	Network Administration I	3
IT-2750	Scripting Fundamentals for Cybersecurity	3
Arts and Humanities/Social and Behavioral Sciences requirement		3
Select one of the following:		3

ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
	Credit Hours	**12**
Third Semester		
BADM-1020	Introduction to Business	3
ITNT-2370	Network Security Fundamentals	3
ITNT-2380	Linux Administration	3
MATH-1190	Algebraic and Quantitative Reasoning (or higher Approved Ohio Transfer 36 Mathematics course) [1]	3
Select one of the following:		3
COMM-1010	Fundamentals of Speech Communication	
COMM-101H	Honors Speech Communication	
	Credit Hours	**15**
Fourth Semester		
BADM-1050	Professional Success Strategies	3
ITNT-2990	Networking Capstone	3
ITXX-2xxx	2000 level ITNT elective	1-3
Natural and Physical Sciences requirement		3
	Credit Hours	**10-12**
	Total Credit Hours	**60-62**

[1] MATH-1100 Mathematical Explorations or MATH-1240 Contemporary Mathematics will be accepted to meet Mathematics requirement for this program.

Electives

Code	Title	Credit Hours
IT-2760	Introduction to Digital Forensics	3
ITNT-2814	Special topics: AWS Cloud Foundations	3
ITNT-2815	Cloud Computing Fundamentals	3.00
ITNT-2310	TCP/IP	3
ITNT-2420	Network Administration II	3
IT-2830	Cooperative Field Experience	1-3

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.