

Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Program of Study: *Networking & Cybersecurity*

The Networking & Cybersecurity program of study focuses on occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study includes analysis of data processing challenges to implementing and improving computer systems.

Secondary Courses for High School Credit

9th Grade	Principles of Information Technology
10th Grade	Networking
11th Grade	- Cybersecurity Capstone - Digital Forensics
12th Grade	- Practicum in IT: Networking & Cybersecurity - Practicum in IT: Internships
Optional Electives	- Computer Maintenance - Computer Science 1 Honors - AP Computer Science - Career Prep 1

Internship and Practicum Opportunities

Students have the opportunity to gain hands-on experience in a variety of different businesses. There are numerous internships opportunities including the following: **Caterpillar (CAT), Textron, Bell Helicopter, iTrust, among others.**

Career and Technical Student Organization (CTSO)

SkillsUSA

Workforce Development
Organization

Career & Technical Student Organizations (CTSOs) are student-led organizations that build leadership, career skills, and real-world experience through competitions, networking, and hands-on learning.

Aligned Industry-Based Certifications

- NOCTI Cybersecurity Fundamentals
- CompTIA IT Fundamentals
- CompTIA Network +
- CompTIA Security +



Example Postsecondary Opportunities

Apprenticeships

- Network Engineer Apprenticeship

Associate Degrees

- Computer Systems Networking and Telecommunications
- Network and System Administration

Bachelor's Degrees

- Computer and Information Sciences
- Information Technology

Master's, Doctoral, and Professional Degrees

- Computer Science
- Information Technology

Additional Stackable IBCs/License

- Aruba Certified Mobility Associate (ACMA)



Example Aligned Occupations

Computer Network Support Specialists

Median Wage: \$65,646
Annual Openings: 1,634
10-Year Growth: 19%

Computer Systems Analysts

Median Wage: \$101,716
Annual Openings: 4,985
10-Year Growth: 19%

Network and Computer Systems Administrators

Median Wage: \$85,375
Annual Openings: 2,900
10-Year Growth: 20%

