

NYS CIP CODE: 11.1002

Program Summary

- Use the latest software to analyze data traffic on a network.
- Design computer networks, program routers, and switches.
- Troubleshoot PC hardware and operating systems.
- Get industry standard Network+ and Cisco CCNA certifications while still in high school.

College Credit Connections

- Alfred State College
- SUNY Canton
- SUNY Erie
- Trocaire College

Additional Information

- Graduates are eligible to take the Cisco Certified Network Associate (CCNA) certification licensing exam as well as the Comptia A+, Network+, and Security+ certifications.

Career Pathways

Professional Careers

Cyber Threat Analyst
Ethical Hacker
Penetrating Tester
Security Administrator
Security Engineer
Vulnerability Assessor

Technical Careers

Local Area Network Administrator
Network Security Technician
Network Software Support
Network Systems Engineer
Specialist

Entry Level Careers

CERT Member
Computer Repair Technician
Help Desk Technician
Law Enforcement
Network Installation Technician
Network Support Specialist
Technician
Telecommunications Technician
Wiring and Cabling Installation



Digital Forensics

- Analyze Computer Data and Hardware for Evidence Collection and Criminal Prosecution

Wireshark

- Analyze Network Traffic to Identify Vulnerabilities and Monitor Network Activity

Back Track and Kali Utilities

- Utilize Suite of Utilities to Find Flaws in Network Security

Intro to Network Security

- Design and Build Networks Using the Latest Tools to Analyze and Enhance Network Security

Cyber Terrorism

- Research Ethics and Morals in Relation to Cyber Attacks on Society and the Mentality of a Cyberterrorist

Firewall Configuration

- Configure Hardware Firewalls from Various Vendors for Added Network Security

Wireless Configuration

- Configure and Setup Secure Wireless Devices for Home and Business

Steganography

- Use Various Programs to Hide Data Within Pictures, Videos and Music Files

