Cybersecurity and Networking

PROGRAM SUMMARY
• Use the latest software to analyze data traffic on a network.
• Design computer networks and 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
• Erie Community College
• SUNY Canton
• Trocaire College

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

PROGRAM ELIGIBILITY
• Technical Endorsement
• 3.75 Credits per Year
• Pathways to Graduation (CTE and CDOS)

Career Paths

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

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

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