# **CYBERSECURITY & NETWORKING**

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 eligble 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**

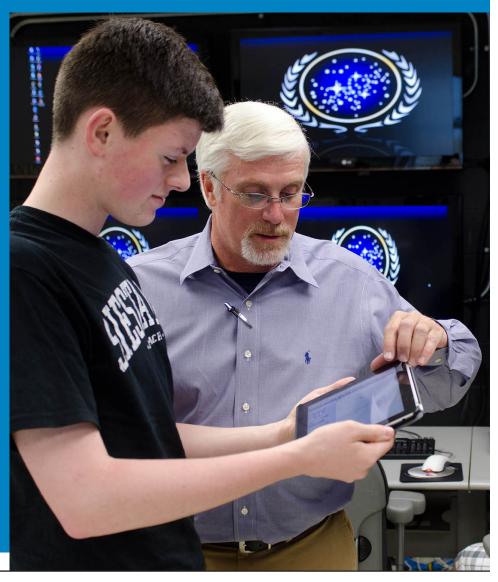
Cyber Threat Analyst Ethical Hacker Penetrating Tester Security Administrator Security Engineer Vulnerability Assessor

#### **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



# **CYBERSECURITY & NETWORKING**

### **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

