



IT & Cybersecurity

This pathway is designed to give students a comprehensive introduction to cybersecurity and the practice of protecting systems, networks, and programs from digital attacks. Students will also learn about the integration of artificial intelligence with network defense aimed at assessing, changing, or destroying sensitive information. Possible careers include information security analyst, computer network architect, network administrator, compliance analyst, and database analyst.



◆ Course Sequence

1. Networking
2. Cybersecurity
3. Cybersecurity Defense

◆ College Credit Opportunities

- Digital Systems
- Hardware Support (Comp TIA ITF+)
- Intro to Computer and Application Software
- Intro to Digital Forensics
- Intro to Logic/Programming
- Intro to UNIX/Linux
- Technical Report Writing
- Web Server Administration

College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- CompTIA Security+
- Fundamentals of Industry 4.0
- Leadership Excellence - Student

Pathway Promise: Scholars that successfully complete this pathway will be prepared with industry credentials, college credits, and community experiences that support their future aspirations.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

NIHF STEM

IT & Cybersecurity

Entry-Level Careers

- Computer Repair Technician
- Cybersecurity Analyst
- Cryptographer
- Help Desk Technician
- Incident Responder
- Information Security Analyst
- Information Technology Specialist
- IT Auditor
- Network Cabling Technician
- Security Analyst
- Source Code Auditor
- Technical Support Representative

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Backup/Recovery Specialist
- Computer Forensics
- Computer Support Specialist
- Data Analytics
- Data Center Technician
- IT Security Analyst
- Network Security Administrator
- Network Support Engineer
- Product Setup Specialist
- Security Specialist
- Security System Administrator
- Telecommunications Technician

Professional Careers

(Bachelor's Degree or higher education)

- Application Security Engineer
- Chief Information Security Officer
- Compliance Analyst
- Computer Network Architect
- Cybersecurity Consultant
- Database Analyst
- Forensic Engineer
- Information Security Analyst
- IT Product Manager
- Malware Analyst
- Network Security Analyst
- Security Architect