

Industry Credentials, Concentration Sequences, and Career Clusters

Cybersecurity Fundamentals (6302)

Industry Credentials:

These apply only to 36-week courses

- AWS Certified Cloud Practitioner Certification Examination
- Certified Associate in Python Programming (PCAP) Examination
- Certified Entry-Level Python Programmer (PCEP) Examination
- Certified Ethical Hacker (CEH) Examination
- Certified Secure Computer User (CSCU) Examination
- Cloud Essentials+ Certification Examination
- CodeHS Cybersecurity Level 2 Certification Examination
- CodeHS Level 1 Certification Examinations: Cybersecurity Level 1
- Computer Networking Fundamentals Assessment
- Cyber Forensics Associate Examination
- Ethical Hacking Associate Examination
- IC3 Digital Literacy Certification Examinations
- Information Technology Specialist Certification Examinations: Cybersecurity
- Information Technology Specialist Certification Examinations: Networking
- IT Fundamentals+ (ITF+) Certification Examination
- Linux+ Certification Examination
- macOS Support Essentials Examination (Retired)
- Microsoft Certified Fundamentals Examinations: Security, Compliance, and Identity Fundamentals
- National Career Readiness Certificate Assessment
- Security Pro Certification Examination
- Security+ Certification Examination
- Workplace Readiness Skills for the Commonwealth Examination

Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to*

complete a specialization may take additional courses based on their career pathways.

- Cybersecurity in Family and Consumer Sciences
- Cybersecurity in Food and Agriculture
- Cybersecurity in Manufacturing
- Cybersecurity in Marketing
- Cybersecurity Operations
- Cybersecurity Systems Technology
- Health Informatics
- Healthcare Information Security

Career Clusters, Career Pathways, and Occupations:

- Government and Public Administration
 - National Security
 - Military Intelligence Specialist
 - Planning
 - Interviewer
 - Urban and Regional Planner
 - Public Management and Administration
 - Government Accountant/Auditor
 - Regulation
 - Cyber Crime Investigator
 - Financial Analyst
 - Privacy Compliance Manager
 - Aviation Inspector
 - Compliance Officer
 - Transit Vehicle Inspector
 - Revenue and Taxation
 - Financial Analyst
 - Real Estate Appraiser
 - Revenue Agent
- Information Technology
 - Information Support and Services
 - Computer User Support Specialist
 - Database Administrator
 - Database Analyst
 - Information Systems Analyst
 - Internet Entrepreneur

- Network Systems and Data Communication Analyst
- Software Test Engineer
- Systems Analyst
- Computer Systems Engineer, Architect
- Geographic Information Systems (GIS) Technician
- Information Systems Security Developer
- Network Systems
 - Computer Security Specialist
 - Computer Systems Engineer, Architect
 - Database Analyst
 - Network Architect
 - Network Systems and Data Communication Analyst
 - Network and Computer Systems Administrator
 - Systems Analyst
 - Computer and Information Systems Administrator
 - Computer Software Engineer
 - Telecommunications Specialist
- Programming and Software Development
 - Applications Integrator
 - Computer Software Engineer
 - Game Designer, Programmer
 - Informatics Nurse Specialists
 - Multimedia Artist, Animator
 - Network Systems and Data Communication Analyst
 - Programmer
 - Project Manager
 - Software Applications Engineer
 - Software Test Engineer
 - Systems Analyst
 - Web Developer
- Web and Digital Communications
 - Applications Integrator
 - Computer User Support Specialist
 - Computer Systems Engineer, Architect
 - Game Designer, Programmer
 - Project Manager
 - Software Test Engineer
 - Systems Analyst

- Web Developer
 - Webmaster
- Law, Public Safety, Corrections and Security
 - Law Enforcement Services
 - Private Detective, Investigator
 - Customs Inspector
 - Forensic Science Technician
 - Police Officer
 - Legal Services
 - Cyber Legal Advisor
 - Security and Protective Services
 - Private Detective, Investigator
 - Security Officer
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Computer Programmer
 - Computer Software Engineer
 - Network and Computer Systems Administrator
 - Network Systems and Data Communication Analyst
 - Systems Analyst
 - Telecommunications Specialist
 - Science and Mathematics
 - Bioinformatics Technician