

# 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
- Cyber Forensics Associate Examination
- Ethical Hacking Associate Examination
- IC3 Digital Literacy Certification Examinations: GS5 Key Applications
- IC3 Digital Literacy Certification Examinations: GS5 Living Online
- IC3 Digital Literacy Certification Examinations: GS6 Level 1 (Basic)
- IC3 Digital Literacy Certification Examinations: GS6 Level 2 (Intermediate)
- IC3 Digital Literacy Certification Examinations: GS6 Level 3 (Advanced)
- IC3 Digital Literacy Certification GS5 Examination: Computing Fundamentals
- Information Technology Specialist Certification Examinations: Cybersecurity
- Information Technology Specialist Certification Examinations: Networking
- IT Fundamentals+ (IFT+) Certification Examination
- macOS Support Essentials Examination
- Microsoft Certified Fundamentals Examinations: Security, Compliance, and Identity Fundamentals
- National Career Readiness Certificate Assessment: Applied Math
- National Career Readiness Certificate Assessment: Graphic Literacy
- National Career Readiness Certificate Assessment: Workplace Documents
- 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
- 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