

# Industry Credentials, Concentration Sequences, and Career Clusters

## Cybersecurity Operations (6304)

### Industry Credentials:

*These apply only to 36-week courses*

- A+ Certification Examination
- 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 Internet Web (CIW) Advanced HTML 5 and CSS3 Specialist Examination
- Certified Internet Web (CIW) Data Analyst Examination
- Certified Internet Web (CIW) Database Design Specialist Examination
- Certified Internet Web (CIW) Internet Business Associate Examination
- Certified Internet Web (CIW) JavaScript Specialist Examination
- Certified Internet Web (CIW) Network Technology Associate Examination
- Certified Internet Web (CIW) Site Development Associate Examination
- Certified Internet Web (CIW) Social Media Strategist Examination
- Certified Internet Web (CIW) User Interface Designer Examination
- Certified Internet Web (CIW) Web Security Specialist 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
- College and Work Readiness Assessment (CWRA+)
- Computer Networking Fundamentals Assessment
- Computer Technology Assessment
- Cyber Forensics Associate Examination
- Ethical Hacking Associate Examination
- 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)
- Information Technology Specialist Certification Examinations: Cybersecurity

- Information Technology Specialist Certification Examinations: Networking
- IT Fundamentals+ (ITF+) Certification Examination
- Linux+ Certification Examination
- Microsoft Certified Fundamentals Examinations: 365 Fundamentals
- Microsoft Certified Fundamentals Examinations: Azure AI Fundamentals
- Microsoft Certified Fundamentals Examinations: Azure Data Fundamentals
- Microsoft Certified Fundamentals Examinations: Azure Fundamentals
- Microsoft Certified Fundamentals Examinations: Power Platform Fundamentals
- Microsoft Office Specialist (MOS) Examinations: Access (Expert Level)
- Microsoft Office Specialist (MOS) Examinations: Access Associate
- Microsoft Office Specialist (MOS) Examinations: Excel (Associate Level)
- Microsoft Office Specialist (MOS) Examinations: Excel (Expert Level)
- Microsoft Office Specialist (MOS) Examinations: Outlook (Associate Level)
- Microsoft Office Specialist (MOS) Examinations: PowerPoint (Associate Level)
- Microsoft Office Specialist (MOS) Examinations: Word (Associate Level)
- Microsoft Office Specialist (MOS) Examinations: Word (Expert Level)
- National Career Readiness Certificate Assessment
- Network Pro Certification Examination
- Network+ Certification Examination
- Oracle Certified Associate, Java SE 8 Programmer Examination
- Oracle Certified Foundations Associate Examinations: Oracle Java Foundations
- PC Pro Certification Examination
- 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.*

- Computer Information Systems (18 Weeks)
- Computer Information Systems (36 Weeks)
- Cybersecurity Fundamentals
- Cybersecurity Operations, Advanced
- Database Design and Management (Oracle)

- Design, Multimedia, and Web Technologies (18 Weeks)
- Design, Multimedia, and Web Technologies (36 Weeks)
- Digital Applications (18 Weeks)
- Digital Applications (36 Weeks)
- Information Technology Fundamentals
- International Baccalaureate Information Technology in a Global Society
- Java Programming (Oracle)
- Office Administration (18 Weeks)
- Office Administration (36 Weeks)
- Programming

### **Career Clusters, Career Pathways, and Occupations:**

- Information Technology
  - Information Support and Services
    - Computer User Support Specialist
    - Database Administrator
    - Internet Entrepreneur
    - Maintenance Technician
  - Network Systems
    - Computer User Support Specialist
    - Computer and Information Systems Administrator
    - Network and Computer Systems Administrator
    - Telecommunications Specialist
  - Programming and Software Development
    - Computer Software Engineer
    - Programmer
    - Software Applications Engineer
    - Software Test Engineer
    - Systems Analyst
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Computer Hardware Engineer
    - Computer Programmer
    - Computer Software Engineer
    - Network Systems and Data Communication Analyst
    - Network and Computer Systems Administrator
    - Production, Planning, Expediting Clerk

- Project Manager
- Stockroom, Warehouse, or Storage Yard Stock Clerk
- Technical Writer
- Telecommunications Specialist
- Transportation Manager