Industry Credentials, Concentration Sequences, and Career Clusters

Cybersecurity in Food and Agriculture (8074)

Industry Credentials:

These apply only to 36-week courses.

- College and Work Readiness Assessment (CWRA+)
- IC3 Digital Literacy Certification Examination
- IT Fundamentals+ Certification Examination
- National Career Readiness Certificate Assessment
- Security Pro 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 Fundamentals (6302/36 weeks)
- Cybersecurity in Food and Agriculture, Advanced (8075/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Commodity Broker
    - Agricultural Economist
- Business Management and Administration
  - Administrative Support
    - Administrative Assistant
    - Computer Operator
    - Data Entry Specialist
    - Information Assistant
    - Legal Assistant
    - Management Analyst

- Business Information Management
  - Account Executive
  - Administrative Assistant
  - Applications Integrator
  - Budget Analyst
  - Chief Executive Officer
  - Communications Equipment Operator
  - Computer Support Specialist
  - Cost Analyst
  - Customer Service Representative
  - Data Entry Specialist
  - Database Analyst
  - Desktop Publisher
  - Executive Assistant
  - Financial Analyst
  - Front Office Assistant
  - Information Assistant
  - Legal Assistant
  - Maintenance Technician
  - Management Analyst
  - Market Research Analyst
  - Marketing Manager
  - Records Processing Assistant
  - Software Test Engineer
  - Systems Analyst
  - Technical Writer
  - Word Processor
- General Management
  - Management Analyst
- Human Resources Management
  - Compliance Officer
- Operations Management
  - Administrative Services Manager
  - Billing Manager
  - Chief Operating Officer
  - General Manager
  - Internet Entrepreneur
  - Management Analyst
- Education and Training
  - Teaching and Training
    - Training Consultant/Training Specialist
- Government and Public Administration
  - National Security
    - Combat Specialty Officer
    - Cyber Defense Analyst
    - Military Enlisted Personnel

- - - Military Intelligence Specialist
    - Military Officer
    - Special Forces Personnel
  - Public Management and Administration
    - Government Accountant/Auditor
  - Regulation
    - Compliance Officer
    - Cyber Crime Investigator
    - Environmental Compliance Inspector
    - Financial Analyst
    - Financial Manager
    - Privacy Compliance Manager
  - Revenue and Taxation
    - Compliance Officer
    - Financial Analyst
    - Financial Manager
- Information Technology
  - Information Support and Services
    - Account Executive
    - Administrative Assistant
    - Applications Integrator
    - Communications Equipment Operator
    - Computer Numerical Control Programmer (CNC Programmer)
    - Computer Support Specialist
    - Computer Systems Engineer, Architect
    - Customer Service Representative
    - Data Entry Specialist
    - Data Modeler
    - Database Administrator
    - Database Analyst
    - Executive Assistant
    - Geographic Information Systems (GIS) Technician
    - Information Systems Analyst
    - Information Systems Security Developer
    - Information Systems Security Manager
    - Instructional Coordinator
    - Internet Entrepreneur
    - Maintenance Technician
    - Network Systems and Data Communication Analyst
    - Software Test Engineer
    - Systems Analyst
    - Technical Writer
    - Word Processor
  - Network Systems
    - Computer and Information Systems Administrator
    - Computer Operator

- Computer Security Specialist
- Computer Software Engineer
- Computer Support Specialist
- Computer Systems Engineer, Architect
- Database Analyst
- Information Security Analyst
- Network and Computer Systems Administrator
- Network Architect
- Network Systems and Data Communication Analyst
- Radio, TV Broadcast Technician
- Software Test Engineer
- Sound Engineering Technician
- Systems Analyst
- Telecommunications Equipment Installer, Repairer
- Telecommunications Specialist
  - o Programming and Software Development
    - Applications Integrator
    - Computer Software Engineer
    - 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
  - o Web and Digital Communications
    - Applications Integrator
    - Computer Support Specialist
    - Computer Systems Engineer, Architect
    - Game Designer, Programmer
    - Graphic Designer
    - Instructional Coordinator
    - Multimedia Artist, Animator
    - Project Manager
    - Radiologic Technologist, Radiographer
    - Software Test Engineer
    - Systems Analyst
    - Web Developer
    - Webmaster
- Law, Public Safety, Corrections and Security
  - o Legal Services
    - Cyber Legal Advisor
- Manufacturing
  - o Manufacturing Production Process Development

- - - Network Designer
    - Precision Inspector, Tester, or Grader
    - Production Manager
    - Programmer
    - SPC (Statistical Process Control) Coordinator
  - Quality Assurance
    - Calibration Technician
    - Precision Inspector, Tester, or Grader
    - Quality Control Technician
    - SPC (Statistical Process Control) Coordinator
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Computer Hardware Engineer
    - Computer Programmer
    - Computer Software Engineer
- Transportation, Distribution and Logistics
  - Logistics Planning and Management Services
    - Logistics Analyst
    - Logistics Engineer
    - Logistics Manager