

Industry Credentials, Concentration Sequences, and Career Clusters

Computer Network Software Operations, Advanced (6651)

Industry Credentials:

These apply only to 36-week courses

- A+ Certification Examination
- AWS Certified Cloud Practitioner Certification Examination
- Business Information Processing Assessment
- 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
- Cloud Essentials+ Certification Examination
- Cloud+ Certification Examination
- College and Work Readiness Assessment (CWRA+)
- Computer Networking Fundamentals Assessment
- Computer Technology Assessment
- IC3 Digital Literacy Certification Examinations
- Information Technology Specialist Certification Examinations: Artificial Intelligence
- Information Technology Specialist Certification Examinations: Cloud Computing
- Information Technology Specialist Certification Examinations: Computational Thinking
- Information Technology Specialist Certification Examinations: Databases
- Information Technology Specialist Certification Examinations: Device Configuration and Management
- Information Technology Specialist Certification Examinations: Network Security
- 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)
- Computer Information Systems, Advanced (18 Weeks)
- Computer Information Systems, Advanced (36 Weeks)
- Computer Network Software Operations
- Cybersecurity Operations

- 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
- Programming, Advanced

Career Clusters, Career Pathways, and Occupations:

- Information Technology
 - Information Support and Services
 - Computer User Support Specialist
 - Computer Systems Engineer, Architect
 - Multimedia Artist, Animator
 - Network Systems and Data Communication Analyst
 - Network Systems
 - Computer Security Specialist
 - Computer User Support Specialist
 - Computer and Information Systems Administrator
 - Network Systems and Data Communication Analyst
 - Network and Computer Systems Administrator
 - Telecommunications Specialist
 - Programming and Software Development
 - Game Designer, Programmer
 - Multimedia Artist, Animator
 - Network Systems and Data Communication Analyst
 - Software Applications Engineer
 - Web Developer
- 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