

Industry Credentials, Concentration Sequences, and Career Clusters Geospatial Technology I

Industry Credentials:

These apply only to 36-week courses.

- ArcGIS Desktop Entry Certification Examination
- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Spatial Projects and Community Exchange (SPACE) Examination
- Spatial Technology and Remote Sensing (STARS) 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.*

- Geospatial Technology II (8424/36 weeks)
- Modeling and Simulation Technology (8460/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Agricultural Economist
 - Farm, Ranch Manager
 - Farmer/Rancher
 - Environmental Service Systems
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Water Conservationist
 - Natural Resources Systems
 - Ecologist
 - Fish and Game Officer
 - Forest Manager, Forester
 - Forest Technician
 - Geological Technician
 - Outdoor Recreation Guide

- Park Manager
- Park Technician
- Range Technician
- Wildlife Manager
- Architecture and Construction
 - Design/Pre-Construction
 - Civil Engineer
 - Survey Technician
 - Surveyor
- Government and Public Administration
 - National Security
 - Combat Specialty Officer
 - Military Enlisted Personnel
 - Military Intelligence Specialist
 - Military Officer
 - Special Forces Personnel
 - Planning
 - Actuarial Analyst
 - Economic Development Coordinator
 - Economist
 - Urban and Regional Planner
 - Public Management and Administration
 - Eligibility Specialist
 - Government Accountant/Auditor
 - Mail Carrier
 - Postal Service Clerk
 - Postmaster/Mail Superintendent
 - Regulation
 - Aviation Inspector
 - Compliance Officer
 - Environmental Compliance Inspector
 - Financial Analyst
 - Financial Manager
 - Private Detective, Investigator
 - Transit Vehicle Inspector
 - Revenue and Taxation
 - Compliance Officer
 - Financial Analyst
 - Real Estate Appraiser
 - Revenue Agent
- Information Technology
 - Information Support and Services
 - Data Entry Specialist
 - Data Modeler
 - Database Administrator
 - Database Analyst

- Geographic Information Systems (GIS) Technician
- Network Systems
 - Database Analyst
 - Network and Computer Systems Administrator
- Programming and Software Development
 - Applications Integrator
 - Computer Software Engineer
 - Programmer
- Web and Digital Communications
 - Applications Integrator
- Law, Public Safety, Corrections and Security
 - Emergency and Fire Management Services
 - Emergency Medical Technician, Paramedic
 - Firefighter
 - Law Enforcement Services
 - Police Officer
 - Private Detective, Investigator
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Agricultural Engineer
 - Civil Engineer
 - Civil Engineering Technician
 - Computer Software Engineer
 - Engineering Manager
 - Environmental Engineer
 - Industrial Engineer
 - Petroleum Engineer
 - Power Systems Engineer
 - Telecommunications Specialist
 - Science and Mathematics
 - Botanist
 - Ecologist
 - Economist
 - Environmental Scientist
 - Geodetic Surveyor
 - Geoscientist
 - Hydrologist
- Transportation, Distribution and Logistics
 - Health, Safety and Environmental Management
 - Health, Safety, and Environment Manager
 - Logistics Planning and Management Services
 - Logistics Analyst
 - Logistics Engineer
 - Logistics Manager
 - Transportation Operations
 - Pilot

- Transportation Manager
- Transportation Systems/Infrastructure Planning, Management and Regulation
 - Civil Engineer
 - Civil Engineering Technician
 - Traffic Engineer
 - Traffic Technician
 - Urban, Regional Planner
- Warehousing and Distribution Center Operations
 - Transportation Manager