Industry Credentials, Concentration Sequences, and Career Clusters

Geospatial Technology II (8424)

Industry Credentials:

These apply only to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- GIS Fundamentals Foundation Examination
- 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 I

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Commodity Broker
    - 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
- Plant Systems
  - Certified Crop Advisor
  - Crop Grower
  - Farm, Ranch Manager
  - Farmer/Rancher
  - Soil and Plant Scientist
- Power, Structural, and Technical Systems
  - Agricultural Engineer
- Architecture and Construction
  - Construction
    - General Contractor
  - Design/Pre-Construction
    - Civil Engineer
    - Survey Technician
    - Surveyor
- Government and Public Administration
  - Planning
    - Actuarial Analyst
    - Economic Development Coordinator
    - Economist
    - Interviewer
    - 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
    - Applications Integrator
    - Computer User Support Specialist
    - Data Entry Specialist
    - Data Modeler
    - Database Administrator
    - Database Analyst
    - Geographic Information Systems (GIS) Technician
    - Systems Analyst
  - Network Systems
    - Network and Computer Systems Administrator
    - Telecommunications Specialist
  - 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
  - National Security

- Combat Specialty Officer
- Military Enlisted Personnel
- Military Intelligence Specialist
- Military Officer
- Special Forces Personnel
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Aerospace Engineer
    - Architect
    - Civil Engineer
    - Civil Engineering Technician
    - Engineering Manager
    - Environmental Engineer
    - Industrial Engineer
    - Petroleum Engineer
    - Systems Analyst
    - Telecommunications Specialist
  - Science and Mathematics
    - Botanist
    - Ecologist
    - Economist
    - Environmental Scientist
    - 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
- Transportation Manager
- Urban, Regional Planner