

# Industry Credentials, Concentration Sequences, and Career Clusters

## Forestry Management, Advanced (8044)

### Industry Credentials:

*These apply only to 36-week courses.*

- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Forest Products and Processing Assessment
- National Career Readiness Certificate Assessment
- Natural Resources Systems Assessment
- 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.*

- Agricultural Business Fundamentals I (8022/36 weeks)
- Agricultural Business Management III (8026/36 weeks)
- Agricultural Business Operations II (8024/36 weeks)
- Applied Agricultural Concepts (8072/18 weeks)
- Applied Agricultural Concepts (8073/36 weeks)
- Biological Applications in Agriculture (8086/36 weeks)
- Biotechnology Applications in Agriculture (8087/36 weeks)
- Biotechnology Foundations in Agricultural and Environmental Science (8085/36 weeks)
- Community Forestry and Tree Management (8048/36 weeks)
- Ecology and Environmental Management (8045/18 weeks)
- Ecology and Environmental Management (8046/36 weeks)
- Fisheries and Wildlife Management (8041/36 weeks)
- Forestry Management (8042/36 weeks)
- Introduction to Natural Resources and Ecology Systems (8040/36 weeks)
- Operating the Farm Business (8014/36 weeks)
- Outdoor Recreation, Parks, and Tourism Systems Management (8043/36 weeks)

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

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Products Sales Representative
  - Environmental Service Systems
    - Environmental Compliance Inspector
    - Environmental Sampling and Analysis Technician
    - Secondary School Teacher
    - Water Conservationist
  - Food Products and Processing Systems
    - Biochemist
    - Food Scientist
  - Natural Resources Systems
    - Ecologist
    - Fish and Game Officer
    - Forest Manager, Forester
    - Forest Technician
    - Geological Technician
    - Logging Equipment Operator
    - Outdoor Recreation Guide
    - Park Manager
    - Park Technician
    - Range Technician
    - Wildlife Manager
  - Plant Systems
    - Botanist
    - Custom Harvester
    - Forest Geneticist
    - Plant Breeder/Geneticist
    - Secondary School Teacher
    - Soil and Plant Scientist
    - Tree Surgeon
  - Power, Structural, and Technical Systems
    - Agricultural Engineer
    - Agricultural Equipment Operator
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Agricultural Engineer
    - Environmental Engineer
  - Science and Mathematics
    - Biologist
    - Botanist
    - Ecologist
    - Environmental Scientist
    - Hydrologist
    - Microbiologists
    - Plant Biologist

- Plant Breeder and Geneticist
- Plant Pathologist
- Toxicologist