

# Industry Credentials, Concentration Sequences, and Career Clusters

## Foundations of Agriculture, Food, and Natural Resources (8006)

### Industry Credentials:

*These apply only to 36-week courses.*

- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- National Career Readiness Certificate 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)
- Biotechnology Foundations in Agricultural and Environmental Science (8085/36 weeks)
- Food Science and Dietetics (8239/36 weeks)
- Introduction to Animal Systems (8008/36 weeks)
- Introduction to Natural Resources and Ecology Systems (8040/36 weeks)
- Introduction to Plant Systems (8007/36 weeks)
- Introduction to Power, Structural, and Technical Systems (8016/36 weeks)
- Small Engine Repair (8082/36 weeks)

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

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Commodity Broker
    - Agricultural Economist
    - Agricultural Loan Officer
    - Agricultural Products Sales Representative
    - Farm Products Purchasing Agent and Buyer
    - Farm, Ranch Manager

- Farmer/Rancher
- Feed, Farm Supply Store Sales Manager
- Sales Manager
- Animal Systems
  - Agricultural Products Sales Representative
  - Animal Breeder, Husbandry
  - Animal Geneticist
  - Animal Nutritionist
  - Animal Scientist
  - Aquacultural Manager
  - Poultry Manager
  - Veterinarian
  - Veterinary Technician
- Environmental Service Systems
  - Agricultural Products Sales Representative
  - Environmental Compliance Inspector
  - Environmental Sampling and Analysis Technician
  - Hazardous Materials Handler
  - Recycling Coordinator
  - Secondary School Teacher
  - Toxicologist
  - Turf Farmer
  - Water Conservationist
- Food Products and Processing Systems
  - Biochemist
  - Food Scientist
- Natural Resources Systems
  - Ecologist
  - Fish and Game Officer
  - Fisheries Technician
  - Forest Manager, Forester
  - Forest Technician
  - Geological Technician
  - Logging Equipment Operator
  - Microbiologist
  - Outdoor Recreation Guide
  - Park Manager
  - Park Technician
  - Range Technician
  - Wildlife Manager
- Plant Systems
  - Agricultural Products Sales Representative
  - Botanist
  - Certified Crop Advisor
  - Crop Grower
  - Custom Harvester

- Farm, Ranch Manager
- Farmer/Rancher
- Floral Designer
- Floral Shop Manager
- Forest Geneticist
- Golf Course Superintendent
- Machine Setter, Operator
- Nursery and Greenhouse Manager
- Ornamental Horticulturist
- Plant Breeder/ Geneticist
- Secondary School Teacher
- Soil and Plant Scientist
- Tree Surgeon
- Turf Farmer
- Power, Structural, and Technical Systems
  - Agricultural Engineer
  - Agricultural Equipment Operator
  - Agricultural Equipment Parts Manager
  - Agricultural Equipment Parts Salesperson
  - Machinist
  - Parts Manager
  - Welder