

# Industry Credentials, Concentration Sequences, and Career Clusters

## Agricultural Production Technology (8010)

### Industry Credentials:

*These apply only to 36-week courses.*

- Animal Systems Assessment
- Beef Quality Assurance Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- National Career Readiness Certificate Assessment
- Principles of Livestock Selection & Evaluation Certification Examination
- Production Agriculture 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 (8073/36 weeks)
- Applied Agricultural Concepts (8072/18 weeks)
- Ecology and Environmental Management (8045/18 weeks)
- Equine Science (8015/18 weeks)
- Equine Science (8080/36 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)
- Livestock Production Management (8012/36 weeks)
- Operating the Farm Business (8014/36 weeks)

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

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Farm, Ranch 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
    - Toxicologist
    - Turf Farmer
  - Food Products and Processing Systems
    - Biochemist
    - Food Scientist
  - Natural Resources Systems
    - Fisheries Technician
  - Plant Systems
    - Certified Crop Advisor
    - Soil and Plant Scientist
  - Power, Structural, and Technical Systems
    - Agricultural Engineer
    - Agricultural Equipment Operator
    - Agricultural Equipment Parts Manager
    - Agricultural Equipment Parts Salesperson
    - Machinist
    - Parts Manager
    - Welder