

# Industry Credentials, Concentration Sequences, and Career Clusters

## Equine Science, Advanced (8094)

### Industry Credentials:

*These apply only to 36-week courses.*

- Animal Systems Assessment
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Equine Management and Evaluation Examination
- Equine Science - Year Certification Examination
- National Career Readiness Certificate Assessment
- Small Animal Science and Technology 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)
- Biological Applications in Agriculture (8086/36 weeks)
- Biotechnology Applications in Agriculture (8087/36 weeks)
- Biotechnology Foundations in Agricultural and Environmental Science (8085/36 weeks)
- Equine Science (8080/36 weeks)
- Introduction to Animal Systems (8008/36 weeks)
- Livestock Production Management (8012/36 weeks)
- Small Animal Care I (8083/36 weeks)
- Small Animal Care II (8084/36 weeks)
- Veterinary Science I (8088/36 weeks, 140 hours)
- Veterinary Science II (8089/36 weeks, 140 hours)

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

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Commodity Broker
    - 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
    - Veterinarian
    - Veterinary Technician
  - Environmental Service Systems
    - Agricultural Products Sales Representative
    - Environmental Compliance Inspector
    - Environmental Sampling and Analysis Technician
    - Hazardous Materials Handler
    - Secondary School Teacher
    - Toxicologist
  - Food Products and Processing Systems
    - Biochemist
    - Food Scientist
  - Natural Resources Systems
    - Microbiologist
    - Outdoor Recreation Guide
    - Park Manager
    - Park Technician
    - Range Technician
    - Wildlife Manager
  - Power, Structural, and Technical Systems
    - Agricultural Engineer
    - Agricultural Equipment Operator
    - Agricultural Equipment Parts Manager
    - Agricultural Equipment Parts Salesperson
    - Machinist
    - Parts Manager
- Education and Training
  - Teaching and Training
    - Secondary School Teacher
    - Teacher Assistant
    - Training Consultant/Training Specialist

- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Agricultural Engineer
    - Biomedical Engineer
  - Science and Mathematics
    - Animal Nutritionist
    - Animal Scientist
    - Biologist
    - Chemist
    - Microbiologist
    - Secondary School Teacher
    - Technical Writer
    - Toxicologist
    - Veterinarian
    - Veterinary Assistant