

Industry Credentials, Concentration Sequences, and Career Clusters

Food Science and Dietetics (8239)

Industry Credentials:

These apply only to 36-week courses.

- College and Work Readiness Assessment (CWRA+)
- Food Safety & Science Certification Examination
- Food Science Fundamentals Assessment
- Leadership Essentials Assessment
- Meat Evaluation Certification 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.*

- 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)
- Biotechnology Foundations in Health and Medical Sciences (8344/36 weeks)
- Culinary Arts I (8275/36 weeks, 280 hours)
- Culinary Arts II (8276/36 weeks, 280 hours)
- Culinary Arts Specialization (8279/36 weeks)
- Foundations of Agriculture, Food, and Natural Resources (8006/36 weeks)
- Introduction to Culinary Arts (8249/18 weeks)
- Introduction to Culinary Arts (8250/36 weeks)
- Introduction to Nutrition for Health and Medical Sciences (8390/18 weeks)
- Introduction to Health and Medical Sciences (8301/18 weeks)
- Introduction to Health and Medical Sciences (8302/36 weeks)
- Nutrition and Wellness (8228/18 weeks)
- Nutrition and Wellness (8229/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Animal Systems
 - Animal Breeder, Husbandry
 - Animal Geneticist
 - Animal Nutritionist
 - Animal Scientist
 - Aquacultural Manager
 - Poultry Manager
 - Veterinarian
 - Veterinary Technician
 - Environmental Service Systems
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Toxicologist
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Microbiologist
 - Wildlife Manager
 - Plant Systems
 - Botanist
 - Forest Geneticist
 - Plant Breeder/ Geneticist
 - Soil and Plant Scientist
 - Power, Structural, and Technical Systems
 - Agricultural Engineer
- Health Science
 - Biotechnology Research and Development
 - Biochemist
 - Diagnostics Services
 - Cardiovascular Technologist
 - Computer Tomography (CT) Technologist
 - Medical, Clinical Laboratory Technician
 - Nuclear Medicine Technologist
 - Radiologic Technologist, Radiographer
 - Health Informatics
 - Epidemiologist
 - Health Educator
 - Medical Assistant
 - Medical, Health Services Manager
 - Support Services
 - Environmental Sampling and Analysis Technician

- Food Service Worker
 - Medical, Clinical Laboratory Technologist
 - Therapeutic Services
 - Athletic Trainer
 - Certified Nurse Aide
 - Dental Assistant
 - Dentist
 - Exercise Physiologist
 - Home Health Aide
 - Licensed Practical Nurse
 - Medical Assistant
 - Occupational Therapist
 - Occupational Therapist Aide
 - Pharmacy Technician
 - Physical Therapist
 - Physical Therapist Assistant
 - Physician
 - Recreation Therapist
 - Registered Nurse
 - Respiratory Therapist
 - Respiratory Therapy Technician
 - Surgeon
 - Surgical Technologist
 - Veterinary Assistant
 - Veterinary Technologist
- Human Services
 - Counseling and Mental Health Services
 - Dietitian, Nutritionist
 - Educational/School Counselor
 - Nutritional Counselor
 - Rehabilitation Counselor
 - Substance Abuse and Behavioral Disorder Counselor
 - Early Childhood Development and Services
 - Child Care Worker
 - Director of Early Childhood Education Center
 - Elementary School Teacher
 - Nanny
 - Parent and Family Educator
 - Preschool Teacher
 - Teacher Assistant
 - Family and Community Services
 - Adult Day Care Coordinator
 - Educational/School Counselor
 - Medical, Public Health Social Worker
 - Personal and Home Care Aide
 - Personal Care Services

- Personal and Home Care Aide
- Personal Trainer