



NH Department of Education

# Bureau of Career Development

**Title:** Agriculture, General

**CIP#:** 01.0000

**Definition:** A program that focuses on the general principles and practice of agricultural research and production and that may prepare individuals to apply this knowledge to the solution of practical agricultural problems. Includes instruction in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching, and agricultural business.

**Potential pathway focuses beyond general agriculture:**

- Animal Science
- Plant Science
- Natural Resources
- Outdoor Recreation
- Agriculture Mechanics
- Farming and Food
- Sustainable Agriculture
- Environmental Science

**Careers**

Students in General Agriculture learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

CTE classes in this cluster will introduce you to a variety of interesting careers areas including:

- Agricultural Business
- Agricultural Construction
- Agricultural Education
- Agricultural Finance
- Agricultural Law
- Agricultural Marketing
- Agricultural Real Estate
- Agricultural Sales
- Agricultural Tourism
- Agricultural Transportation
- Agronomy
- Animal Management
- Animal Production
- Animal Welfare
- Aquaculture
- Arboriculture
- Beekeeping
- Conservation
- Crop Production
- Ecology
- Energy Production
- Environmental Science
- Farm Management
- Floriculture
- Food Safety
- Food Science
- Forestry Management
- Forestry Production
- Grain Production
- Greenhouse Management
- Livestock Management
- Livestock Production
- Marine Biology
- Nursery/Landscaping
- Plant Production
- Precision Agriculture
- Soil Management
- Turf Management
- Veterinary Medicine

- Viticulture
- Welding
- Wildlife Biology
- Zoology

**Note:** Each School and school district has different CTE options. Not every district has classes in every agricultural pathway, nor does every district offer CTE Dual Credit and Advanced Placement options.

### **Common Competencies:**

Upon Completion of their selected pathway program, all NH CTE students will:

- Use correct terminology, vocabulary and appropriate language to communicate effectively in the workplace.
- Select and safely use appropriate tools, supplies, and equipment for a specific task or set of tasks.
- Employ effective time and project management strategies to complete work efficiently and proficiently.
- Apply math concepts, including measurement, operations, and higher mathematics to relevant applications and specific tasks.
- Demonstrate awareness strategies to safely work in a variety of workspaces and locations.

### **Pathway Competencies:**

Upon completion of the general agriculture pathway, students will achieve competency in five areas.

#### **Each student will:**

- **CAREER EXPLORATION**
  - Develop a career plan outlining opportunities in the Agriculture, Food and Natural Resources (AFNR) career pathway.
- **STRUCTURE AND FUNCTION**
  - Explain the relationships between the overall composition and individual components of a system and how the identified system functions.
- **STEWARDSHIP**
  - Apply techniques and strategies used to steward best management practices within systems as they relate to Agriculture, Food and Natural Resources (AFNR)
- **BUSINESS SYSTEMS**
  - Develop, access, and plan business creation possibilities as well as identify concepts of business sustainability, human resource management, and marketing.
- **LEADERSHIP**
  - Demonstrate personal growth and community leadership by participating in activities/events such as those offered through the CTE experience (FFA and other professional organizations, and/or community service opportunities).