# Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life - food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

# Plant Science Statewide Program of Study





The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

# **Secondary Courses for High School Credit**

#### Level 1

· Principles of Agriculture, Food, and Natural Resources

#### Level 2

Floral Design (Level 3)

#### Level 3

· Advanced Floral Design

#### Level 4

- · Practicum in Agriculture, Food, and Natural Resources
- · Advanced Plant and Soil Science

#### **Postsecondary Opportunities**

### **Associates Degrees**

- Applied Horticulture/ Horticulture Operations, General
- · Ornamental Horticulture
- Agricultural Business and Management, General
- · Turf and Turfgrass Management

#### **Bachelor's Degrees**

- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Turf and Turfgrass Management

#### Master's, Doctoral, and Professional Degrees

- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- · Agricultural Business and Management, General
- · Farm/Farm and Ranch Management

## Work-Based Learning and Expanded Learning Opportunities

**Exploration Activities** 

Work-Based Learning Activities

- Participate in Texas FFA
- Work at a florist or landscaper business
- Participate in an FFA supervised agriculture experience

## **Industry-Based Certifications**

- Texas State Florist's Association Knowledge Based Floral Certification
- Texas State Florist's Association Level I Floral Certification



# **Aligned Occupations**

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	\$36.733	196	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

