

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.



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



Successful completion of the Plant Science program of study will fulfill requirements of a Business & Industry endorsement or STEM endorsement if the math & science requirements are met. Revised - July 2020



### Meet the Teachers

The Agriculture, Food, & Natural Resource program of study is under the direction of instructors Riley and Kaitlin Webb. Mr. Webb is an

Anderson County native. He grew up in Palestine and went to college at Texas A&M University. Mrs. Webb grew up in Kingwood and also went to Texas A&M University. They decided to become Ag. Science teachers because of the impact that their Ag. teachers had on them.

They feel that the most rewarding thing about their program of study is that it is so hands on. "We get to see our students build and create things. We hope that beyond the projects they build in class, our students build skills that will prepare them for post secondary education or the workforce."



AGRICULTURE, FOOD, &  
NATURAL RESOURCE





**Level 1**

Principles of Agriculture, Food, & Natural Resources

**Level 2**

Greenhouse Operations & Production

**Level 3**

Floral Design/Lab

**Level 4**

Advanced Plant and Soil Science  
Project Based  
Scientific Research & Design

*Certification offered:  
Floral Knowledge & Skills*



Occupations	Median Wages	Annual Openings	% Growth
Soil & Plant Scientists	\$ 54,662	116	21 %
Tree Trimmers & Pruners	\$ 32,240	589	14 %
Pesticide Handlers, Sprayers, & Applicators	\$ 36,733	196	22 %
Landscaping Supervisors	\$ 44,408	807	19 %
Biological Technicians	\$ 42,931	452	17 %

**Work Based Learning & Expanded Learning Opportunities**

Exploration Activities:	Work Based Learning Activities:
Texas FFA	Work part-time at a florist; start or work for a local landscaping business FFA Supervised Agriculture Experience (SAE)

High School/Industry Certification	Certificate/ License*	Associates Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
Floral Knowledge & Skills	Pesticide Applicator	Applied Horticulture/ Horticulture Operations, General	Applied Horticulture/ Horticulture Operations, General	Applied Horticulture/ Horticulture Operations, General
	Certified Floral Designer	Ornamental Horticulture	Agronomy & Crop Science	Agronomy & Crop Science
	Accredited Member of AIFD	Agricultural Business & Management General	Agricultural Business & Management General	Agricultural Business & Management General
	Landscape Industry Certified Technician	Turf & Turfgrass Management	Turf & Turfgrass Management	Farm/Farm & Ranch Management

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.