

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



The Animal Science program of study focuses on the science, research, & business of animals & other living organisms. It teaches CTE learners how to apply biology & life science to real-world life processes of animals & wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research & analyze the growth & destruction of species & research or diagnose diseases & injuries of animals.



Successful completion of the Animal 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 (8th Grade)

**Level 2**  
Small Animal Management & Equine Science (9th Grade)

**Level 3**  
Livestock Production/Lab (10th Grade)

**Level 4**  
Advanced Animal Science (11th Grade)

**Level 5**  
Practicum in Agriculture, Food, & Natural Resources (12th Grade)

*Certification offered:  
Feed-yard Technician in Cattle  
Care & Handling*



Occupations	Median Wages	Annual Openings	% Growth
Animal Breeders	\$ 39,135	28	9 %
Animal Scientists	\$ 57,533	22	12 %
Medical Scientists	\$ 63,898	435	27 %
Veterinarians	\$ 93,496	294	24 %
Zoologists & Wildlife Biologists	\$ 67,309	45	32 %

**Work Based Learning & Expanded Learning Opportunities**

Exploration Activities:	Work Based Learning Activities:
Texas FFA	Agri-Science Fair 4H Volunteer at a local farm or veterinary office FFA Supervised Agriculture Experience (SAE)

High School/Industry Certification	Certificate/ License*	Associates Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
Feed-yard Technician in Cattle Care & Handling	Pet Groomer	Food Science & Technology	Animal Sciences	Genetics
	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine
	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological & Physical Sciences
		Biology Technician	Zoology/ Animal Biology	Biological & Biomedical Sciences

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.