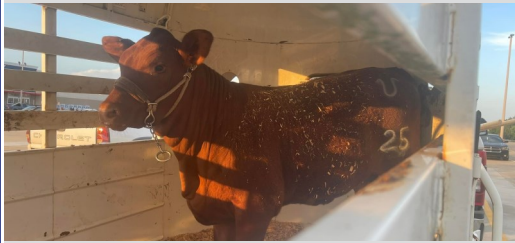The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also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

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches CTE learners how to apply biology and life science to real-world life processes of animals and 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 and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

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."

F I S D
CTE
CAREER & TECHNOLOGY EDUCATION

AGRICULTURE, FOOD, & NATURAL RESOURCE

ANIMAL SCIENCE

ANIMAL SCIENCE

Level 1
Principles of Agriculture, Food, & Natural Resources

Level 2
Small Animal Management & Equine Science

Level 3
Livestock Production/Lab

Level 4
Advanced Animal Science
Practicum in Agriculture, Food, & Natural Resources

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.