



**Level 1** Principles of Agriculture, Food & Natural Resources

**Level 2** Small Animal Management  
Equine Science

**Level 3** Livestock Production  
Veterinary Medical Applications with Lab \*\*

**Level 4** Practicum in Agriculture – Vet Tech \*\*  
Practicum in AFNR \*\*  
Advanced Ag – PBR \*\*  
Extended Career Preparation I \*\*

Successful completion of a **Program of Study** will fulfill requirements of earning an **Endorsement**.

\* District Technology Credit \*\*List Driven Course

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
OSHA Career Safe	Pet Groomer	Food Science and Technology	Animal Sciences	Genetics
Certified Veterinary Assistant	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine
	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences
		Biology Technician	Zoology/Animal Biology	Biological and Biomedical Sciences

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.

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.

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	WBL Activities:
Texas FFA	Agri-Science Fair Volunteer at a local vet office FFA Supervised Agriculture Experience (SAE)



Occupations	Median Wage	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 and Wildlife Biologists	\$67,309	45	32%

# COURSE INFORMATION

COURSE NAME	LOCAL COURSE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Agriculture, Food & Natural Resources	12000 (1 credit)	None	9-12
Small Animal Management	12002 (0.5 credit)	Principles of AFNR	10-12
Equine Science	12001 (0.5 credit)	Principles of AFNR	10-12
Livestock Production	12003 (1 credit)	Principles of AFNR	10-12
Veterinary Medical Applications/Lab **	12004 (2 credits)	PREQ: Equine Science & Small Animal Management or Livestock Production	11-12
Practicum in Agriculture Vet Tech **	12014 (2 credits)	Veterinary Medical Applications	12
Practicum in Agriculture, Food, and Natural Resources **	12006 (2 credits)	PREQ: A sequence of courses from this POS.	11-12
Advanced Ag – PBR **	12020 (1 credit)	PREQ: A sequence of courses from this POS	12
Extended Career Preparation I **	12255 (3 credits)	PREQ: A sequence of courses from this POS	11-12

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*Recommended Technology Credit = Principles of Information Technology or Principles of Arts, A/V Technology*

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER,  
PLEASE CONTACT:

### Program Managers

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