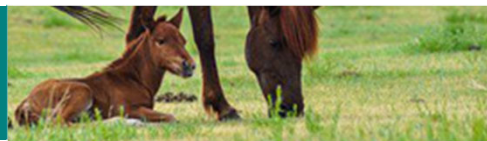


Agriculture, Food, and Natural Resources Career Cluster

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.

Veterinary Science



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.

Secondary Courses for High School Credit

Level 1

- Principles of Veterinary Science

Level 2

- Small Animal Management
- Equine Science

Level 3

- None

Level 4

- * Veterinary Medical Applications/Lab ¹
- * Practicum in Veterinary Science ²

* Coming 2024-25 School Year



Postsecondary Opportunities

Associates Degrees

- Veterinary Studies
- Biotechnology Laboratory Technician
- Biology Technician

Bachelor's Degrees

- Animal Sciences
- Biology
- Zoology/ Animal Biology

Master's, Doctoral, and Professional Degrees

- Genetics
- Veterinary Medicine
- Biological and Biomedical Sciences

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Texas FFA

Work-Based Learning Activities

- Intern with a local veterinarian

Industry-Based Certifications

- Elanco Veterinary Medical Applications Certification ¹
- Certified Veterinary Assistant, Level 1 ²



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Occupations	Median Wage	Annual Openings	% Growth
Animal Scientists	\$64,100	37	14%
Medical Scientists	\$83,000	624	25%
Veterinarians	\$113,700	347	26%
Zoologists and Wildlife Biologists	\$77,300	55	25%

Veterinary Science Course Information

Level 1

COURSE NAME	SERVICE ID	COREQUISITES	GRADE LEVEL(S)
Principles of Veterinary Science	13000200 (1 credit)	Small Animal Management & Equine Science	Full Year of 10

Level 2

COURSE NAME	SERVICE ID	COREQUISITES	GRADE LEVEL(S)
Small Animal Management	13000400 (0.5 credit)	Principles of Vet Science	Fall of 10
Equine Science	13000500 (0.5 credit)	Principles of Vet Science	Spring of 10

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
None			

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Veterinary Medical Applications/Lab	13000610 (2 credits)	Equine Science AND Small Animal Management	11
Practicum Veterinary Science	13002500 (2 credits)	Veterinary Medical Applications/Lab	12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER,
PLEASE CONTACT YOUR CAMPUS CTE COUNSELOR
<https://tea.texas.gov/cte>

Mesquite ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following people have been designated to handle inquiries regarding the nondiscrimination policies: Title IX Coordinators – Chassordee Willie and Emilio Duran, and/or Section 504 Coordinator Amanda Carroll at 3819 Town Crossing Blvd., Mesquite, TX 75150 / 972-288-6411.

Further nondiscrimination information can be found at
[Notification of Nondiscrimination in Career and Technical Education Programs.](#)