

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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist

Veterinary Science



The Veterinary 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 (H) ²
** Coming 2025-26 School Year*



Postsecondary Opportunities

Associates Degrees

- Biological & Physical Sciences
- Entomology

Bachelor's Degrees

- Biology/Biological Sciences
- Zoology/ Animal Biology

Master's, Doctoral, and Professional Degrees

- Marine Sciences
- Biotechnology

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Texas FFA

Work-Based Learning Activities

- Intern with a local veterinarian, caring for animals and wildlife being treated in the clinic

Industry-Based Certifications

- Elanco Veterinary Medical Applications Certification ¹
- Agrilife Veterinary Assistant Certificate ²

Aligned Advanced Academic Courses

- AP Biology



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Veterinary Assistants & Laboratory Animal Caretakers	\$31,700	1,348	24%
Veterinary Technologists & Technicians	\$73,600	1,217	24%
Veterinarians	\$119,100	347	26%

Successful completion of the Veterinary Science program of study will fulfill requirements of a Business and Industry endorsement. Revised – May 2024

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 in Veterinary Science (H) <i>*Coming 2025-26 School Year</i>	13002500 (2 credits)	Veterinary Medical Applications/Lab	12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER,
PLEASE CONTACT YOUR CAMPUS CTE COUNSELOR

<https://tea.texas.gov/cte>

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