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.



Animal Science Statewide Program of Study



The Animal Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms. This program of study includes applying 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 will research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



Secondary Courses for High School Credit

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Level 1	T101 Principles of Agriculture, Food, & Natural Resources (1 credit/YL)
Level 2	T110 Small Animal Management (.5 credit/Sem.)
	T113 Equine Science (.5 credit/Sem.)
Level 3	T111 Veterinary Medical App/Lab (2 credits/YL)
Level 4	T109 Advanced Animal Science (1 credit/YL)
	T137 Practicum in AFNR ExtAnimal Science (3 credits/YL)

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	 Shadow an animal scientist in a biology lab to learn about applying science to understand animals and wildlife Intern in a veterinary clinic, caring for animals and wildlife being treated in the clinic
Expanded Learning Opportunities	 Participate in an FFA career, leadership, and speaking contest like an agriscience fair Attend an agricultural industry seminar



Aligned Industry-Based Certifications

- · Certified Veterinary Assistant, Level I
- · Elanco Fundamentals of Animal Science



Example Postsecondary Opportunities

Apprenticeships

· Reproduction Technician

Associate Degrees

- · Biological and Physical Sciences
- Entomology

Bachelor's Degrees

- Animal Science
- · Zoology/Animal Biology

Master's, Doctoral, and Professional Degrees

- Marine Sciences
- Biotechnology

Additional Stackable IBCs/License

- Veterinarian
- · Certified Veterinary Technician



Example Aligned Occupations

Veterinary Assistants and Laboratory Animal Caretakers

Median Wage: \$29,906 Annual Openings: 1,348 10-Year Growth: 24%

Veterinary Technologists and Technicians

Median Wage: \$33,679 Annual Openings: 1,217 10-Year Growth: 24%

Veterinarian

Median Wage: \$103,160 Annual Openings: 347 10-Year Growth: 26%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



