



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.

Statewide Program of Study: *Animal Science*

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

Level 1	• Principles of Agriculture, Food, and Natural Resources (13000200)
Level 2	• Small Animal Management/Equine Science (13000400/13000500)
Level 3	• Veterinary Science (13000600)
Level 4	• Livestock and Poultry Production (13000600)
Level 5	• Advanced Animal Science (13000700)

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Participate in an FFA career, leadership, and speaking contest like an agriscience fair

Aligned Industry-Based Certifications

- **Certified Veterinary Assistant, Level 1** – Obtained in Vet Science OR Advanced Animal
- **Elanco Fundamentals of Animal Science Certification** – Obtained in Advanced Animal
- **Elanco Veterinary Medical Applications Certification** – Obtained in Vet 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: \$33,581
Annual Openings: 1,953
10-Year Growth: 24%

Veterinary Technologists and Technicians

Median Wage: \$35,698
Annual Openings: 1,820
10-Year Growth: 24%

Veterinarians

Median Wage: \$125,030
Annual Openings: 435
10-Year Growth: 26%

