

AGRICULTURE, FOOD, AND NATURAL RESOURCES

BUSINESS AND INDUSTRY

ANIMAL SCIENCE

PROGRAM OF STUDY

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches students 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.

INDUSTRY-BASED CERTIFICATION OPPORTUNITIES

Certified Veterinary Assistant (CVA) -
Level I (LHS and VHS)

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%
Veterinary Assistant	\$31,567		9%
Licensed Veterinary Technician	\$36,032		10%

Texas Data: Collected by TEA October 2019



RECOMMENDED COURSE SEQUENCE

- 1 LEVEL** Principles of Agriculture, Food and Natural Resources
- 2 LEVEL** Small Animal Management/Equine Science, Livestock Production
- 3 LEVEL** Veterinary Medical Applications
- 4 LEVEL** Advanced Animal Science, Practicum in Agriculture, Food, and Natural Resources: Veterinary Medical Applications (LHS, VHS)

NOTE: See reverse for additional course sequence options and endorsement requirements. Course descriptions and details can be found in the course catalog.

WORK-BASED LEARNING EXPERIENCES

Industry Guest Speakers; Field Trips;
Agri-Science Fair; In-House Small Animal Clinical Services;
Internships; Veterinary Clinical Internships for CVA (LHS and VHS).

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FFA; National Technical Honor Society (NTHS)



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.

Non-Discrimination Statement

It is the policy of Leander ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its Career and Technology Education Programs, services, or activities. Leander ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. Es norma de Leander ISD de no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales. Leander ISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstáculo para la admisión o participación en todos los programas educativos y vocacionales.

ANIMAL SCIENCE

BUSINESS AND INDUSTRY

A student may earn a Business and Industry endorsement by completing foundation and general endorsement requirements. Endorsement course options for the Animal Science program of study are listed below.



4 CREDITS REQUIRED

Choose 2 credits from the following:

- Small Animal Management/Equine Science
- Livestock Production
- Advanced Animal Science
- Veterinary Medical Applications

Choose additional credits, if needed, from the following:

- Principles of Agriculture, Food and Natural Resources
- Practicum in Agriculture, Food and Natural Resources: Veterinary Medical Applications (LHS & VHS)
- Practicum in Agriculture, Food and Natural Resources: Animal Science
- Wildlife, Fisheries and Ecology Management
- Professional Communications or Entrepreneurship
- Career Preparation
- Project-Based Research

NOTE: Students who complete the Animal Science Program of Study requirements are eligible to earn a STEM endorsement by also completing Algebra II, Chemistry and Physics.

INDUSTRY-BASED CERTIFICATIONS OPPORTUNITIES-DESCRIPTIONS

Practicum in Agriculture, Food, and National Resources: Veterinary Medical Applications(LHS, VHS) is designed to facilitate the skills and internship hours that are required to obtain a Certified Veterinary Assistant (CVA) Level I through Texas Veterinary Medical Association. The certification preparation will educate veterinary assistants in the essential skills and knowledge needed to become effective contributors to a veterinary medical care team. Students are required to complete 300 hours and demonstrate knowledge and mastery of re°quired skills under the supervision of a veterinarian or Licensed Veterinary Technician, in addition to the 200 hours under the supervision of the classroom instructor. Practicum students will be responsible for seeking an internship location with guidance from the instructor for their CVA hours and skills application. Students that have the necessary hours and skills will be eligible to take the exam for Certified Veterinary Assistant (CVA) Level I.

NOTES:
