

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Veterinary Assistant	Pet Groomer	Food Science and Technology	Animal Sciences	Genetics
Feedyard Technician in Cattle Care and Handling	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine
	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences
		Biology Technician	Zoology/ Animal Biology	Biological and Biomedical Sciences

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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%

LEARNING OPPORTUNITIES			
	Work Based Learning		
Exploration Activities:	Activities:		
Texas FFA	Agri-Science Fair		
	4H		
	Volunteer at a local farm or veterinary		
	office		
	FFA Supervised Agriculture Experience		
	(SAE)		

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.



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.

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE & COURSE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Agriculture, Food, and Natural Resources	13000200 / 8010 (1 credit)	None	9-12
Wildlife, Fisheries, & Ecology	1300200 / 8035 (1 credit)	Principles of Agriculture, Food, and Natural Resources	10-12
Livestock Production	13000300 / 8015 (1 credit)	Principles of Agriculture, Food, and Natural Resources	10-12
Advanced Animal Science	13000700 / 8017 (1 credit)	PREQ: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and Livestock Production	11-12
Veterinary Medical Applications	13000600 / 8027 (1 credit)	Livestock Production	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 / 8058 (2 credits)	Advanced Floral Design, Veterinary Medical Applications, Livestock Production, or Ag Mechanics	11-12

BISD Recommended Course Sequence

Grade	9 th Year	10 th Year	11 th Year	12 th Year
Courses	Principles of Agriculture	Wildlife, Fisheries, & Ecology	Livestock Production or Vet Med	Practicum in Agriculture & Advanced Animal Science