

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	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
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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)			

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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.

Gonzales ISD offers career and technical education programs of various kinds. Admission to these programs is based on interest, aptitude, age appropriateness, student request, coursework prerequisites, and class space availability. It is the policy of Gonzales ISD not to discriminate on the basis of race, color, national origin, sex, or handicap in its vocational programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended, Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended. Gonzales 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. For information about your rights or grievance procedures, contact the Title IX and Section 504 Coordinator, John Schumacher, at 1711 Sarah DeWitt Dr, Gonzales, TX 78629, (830) 672-9551

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Small Animal Management	13000400 (0.5 credit)	Principles of AFNR	10-12
Equine Science	13000500 (0.5 credit)	Principles of AFNR	10-12
Livestock Production	13000300 (1 credit)	Principles of AFNR	10-12
Advanced Animal Science	13000700 (1 credit)	PREQ: Biology and Chemistry; Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production;	11-12
Veterinary Medical Applications	13000600 (1 credit)	PREQ: Equine Science, Small Animal Management, or Livestock Production	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	Completion of Level I and II courses	11-12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER, PLEASE CONTACT: