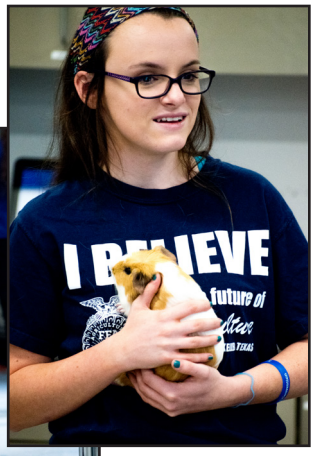
Veterinary Studies

Business and Industry Endorsement

Agriculture, Food & Natural Resources

Career Pathways
- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems

Program Highlights
- Work hands-on with animals
- Learn the ins and outs of animal science
- Compete and travel through FFA (optional)
- Raise show animals through FFA (optional)



Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
Veterinary Studies	**Principles of Agriculture, Food and Natural Resources** (1 Credit)	**Equine Science** (.5 Credit) **and Small Animal Management** (.5 Credit) *Prerequisite: Principles of Agriculture, Food and Natural Resources*	**Veterinary Medical Applications** (1 credit) **and Advanced Animal Science** (1 Credit) *Prerequisites: Equine Science, Small Animal Management, Biology, Chemistry, or IPC, Algebra 1, and Geometry*	**Practicum in Agriculture, Food and Natural Resources** (2 Credits) *Prerequisites: 3 credits in the Veterinary Studies Program*

Certification / Certificate Options
- OSHA General Certification
- Certified Veterinary Assistant (CVA)
- Animal Health Care Attendant (ACT)
- Equine Specialist (iCEV)
- Beef Cattle Specialist (iCEV)
- Avimark Software Certification

CTSO(s)
- FFA - National FFA Organization

Program Fees / Requirements
- FFA Member Fee (Optional - $20)
- Instructor specified scrubs required

Program Location
☑ Courses available at KCAL (Only)

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.

Courses in the AFNR Career Cluster are designed to prepare learners for careers in the planning, production, processing, marketing, distribution, financing, and development of agricultural commodities, services, and natural resources, including food, fiber, wood products, water, minerals, and petroleum.

Principles of Agriculture, Food and Natural Resources (TEDS:13000200 / KISD: 81100)

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

Small Animal Management (TEDS:13000400 / KISD: 81103)

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Equine Science (TEDS:13000500 / KISD: 81104)

Introduction. To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

Veterinary Medical Applications (TEDS:13000600 / KISD: 81105)

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

Advanced Animal Science (TEDS:13000700 / KISD: 81106)

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. (Advanced Animal Science can be used for science credit).

Practicum in Agriculture, Food, and Natural Resources (TEDS:13002500 / KISD: 81161)

This course is recommended for students in Grades 11-12. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. Recommended Prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.

Career	High School	On the Job Training	Certificate	Associates Degree	Bachelor's Degree	Advance College Degree	Average Annual Salary	Possible Majors for this Pathway
Veterinarian						x	$88,770	• Pre-Vet • Veterinarian Technologist • Zoology • Agriculture Engineer • Animal Science • Biomedical Science • Agriculture
Vet Technician				x			$32,490	
Vet Assistant	x	x	x	x			$25,250	
Pet Groomer	x	x	x				$22,230	
Animal Control Officer	x	x					$34,550	
Animal Science					x		$55,000	
Equine Science						x	$72,000	