

## Business & Industry Pathway – Animal Science



### PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

**KISD #:** 904018      **PEIMS:** 13000200  
**Grades:** 9-10      **1.0 Credit**  
**Prerequisite:** None

Student will be gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

### SMALL ANIMAL MANAGEMENT

**KISD #:** 907718      **PEIMS:** 13000400  
**Grades:** 10-12      **0.5 Credit**  
**Prerequisite:** None

Students will be provided with opportunities to learn, reinforce, and apply information in a variety of settings in the areas of small animal, systems/business and associations. Subject areas in this course to be covered are but not limited to: small mammals, amphibians, reptiles, birds, dogs, cats and species specific information. Study will also highlight ownership, hazards, and welfare of small animals.

### EQUINE SCIENCE

**KISD #:** 907218      **PEIMS:** 13000500  
**Grades:** 10-12      **0.5 Credit**  
**Prerequisite:** None

Students will identify career opportunities, industry expectation, and attain general knowledge of horses, mules and donkeys. Areas of study shall include but are not limited to: breed identification, anatomy and physiology, nutrition, reproduction, diseases, parasites, proper handling, training, confirmation, and selection of horses.

### LIVESTOCK PRODUCTION

**KISD #:** 906918      **PEIMS:** 13000300  
**Grades:** 10-12      **1.0 Credit**  
**Prerequisite:** None

Students will develop knowledge and skills pertaining to the nutrition, reproduction, health and management of domestic livestock. Study of animal systems, animal restraint, business management, and careers are included.

### VETERINARY MEDICAL APPLICATIONS

**KISD #:** 907418      **PEIMS:** 13000600  
**Grades:** 11-12      **1.0 Credit**  
**Prerequisite:** Small Animal and Equine Science or Livestock Production

Students will be provided opportunities to demonstrate proper knowledge and skills in the veterinary medicine industry. Topics to be covered in this course are, but not limited to veterinary practices and knowledge as they relate to both large and small animal species. Subject areas include: animal behavior, communication, species/breed information, diseases/disorders, parasites, clinical examinations, imaging equipment, hematology, hospital procedures, and surgical assisting procedures.

### ADVANCED ANIMAL SCIENCE

**KISD #:** 907018      **PEIMS:** 13000700  
**Grades:** 11-12      **1.0 Credit/4th Science Credit Option**  
**Prerequisite:** Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry and Small Animal and Equine Science or Livestock Production or Vet Med Applications

Students will gain an advanced understanding of animal science. Included in the course are experiments, laboratory explorations, and the study of reproduction, breeding, genetics, anatomy, physiology, nutrition, health, and the marketing and harvesting of domestic livestock. This course is also listed in the Science section of the Catalog.

**Required Fee/Materials:** Yes  
**Advanced Grade Points:** Yes