

Veterinary Medical Applications

Local Course #: 81105

State Course ID: 13000600

Course Description:

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.

Link to TEKS:

[https://texas-sos.appianportalsgov.com/rules-and-meetings?\\$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=08%2F05%2F2025&recordId=220472](https://texas-sos.appianportalsgov.com/rules-and-meetings?$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=08%2F05%2F2025&recordId=220472)

First 9 Weeks Major Topics:

Research and discuss historical events, trends, and issues that have impacted veterinary medicine

Analyze topics related to veterinary medical ethics, including animal rights and animal welfare

Explain policies and procedures in veterinary medicine that reflect local, state, and federal laws

Second 9 Weeks Major Topics:

Describe how the human-animal bond impacts veterinary practices when working with clients and their animals

Identify and demonstrate skills needed to communicate effectively with clients and veterinary professionals;

Identify marketing strategies and explain how marketing affects the success of a veterinary practice; and

Research and discuss how electronic technology such as computer programs, medical records, hospital-to-hospital communication, and tablets is used in a veterinary practice.

Third 9 Weeks Major Topics:

Identify sources of nutrients and classes of feeds for large and small animal species;

Identify feed additives for large and small animal species and describe how additives affect the food supply;

Analyze dietary needs and feed-quality issues for large and small animal species and their effect on feeding practices; and

Research and compare the nutritional value of feeds such as prescription, commercial, homemade, fad, and raw diets for large and small animal species.

Fourth 9 Weeks Major Topics:

Describe the characteristics and signs of a healthy and an unhealthy animal;

Identify ranges for healthy vital signs for large and small animal species such as temperature, pulse, respiration, hydration, and capillary refill time;

Demonstrate the proper procedures for obtaining vital signs for large and small animal species and interpret vital sign measurements to determine the health of the animal;

Describe effects of age, stress, and environmental factors on vital signs of animals;

Explain procedures for physical examinations for large and small animal species;

Explain the anatomical regional approach to assess an animal's health;

Apply mathematical skills to calculate weight and linear body measurement for large and small animal species and to convert between measurement systems; and

Analyze tables, charts, and graphs to interpret large and small animal patient and clinical data.