Course Description
ATE2636L | Large Animal Clinic & Nursing Skills Laboratory | 1.00 credit

This course is designed to acquaint the student with the fundamentals of large animal husbandry, herd health management, preventive medicine, animal restraint and nutrition as it relates to the bovine, equine, porcine and caprine species. Techniques discussed in the Large Animal Clinic and Nursing skills course such as venipuncture, injections and administration of other oral medications will be reviewed and demonstrated. One laboratory session will be devoted to poultry science.

Course Competencies:

Competency 1: The student will demonstrate an understanding of significant animal husbandry needs of the horse, cattle, goat, sheep, and pig by:
1. Showing knowledge regarding housing needs specific to the species
2. Displaying knowledge regarding the horse's various bedding or hay requirements
3. Contrasting and comparing sanitation requirements for food stock versus rural farming

Competency 2: The student will demonstrate that they can perform basic grooming requirements for the equine by:
1. Completing basic brushing techniques using proper tools
2. Completing tail wraps
3. Bandaging of the legs
4. Displaying an understanding of the necessity of shoeing a horse
5. Completing hoof cleaning while using proper techniques
6. Displaying knowledge of how to float a horse's teeth

Competency 3: The student will demonstrate that they can take diagnostic radiographs of a horse by:
1. Displaying x-ray safety by knowing and wearing the required PPE
2. Displaying proper handling of the x-ray cassette
3. Operating a digital X-ray machine and producing quality images

Competency 4: The student will demonstrate knowledge of how to perform a physical exam on cattle, sheep, goats, and equine species by:
1. Displaying assessment of TPR
2. Performing auscultation of the heart for rate
3. Recording history and clinical assessments accurately
4. Displaying understanding and implementing the California mastitis test (CMT)

Competency 5: The student will demonstrate the ability to perform venipunctures on equine and ruminant species by:
1. Displaying knowledge of locations to perform venipunctures
2. Safely and accurately handling a syringe and needle while performing venipuncture
3. Drawing blood and placing the sample into the correct blood tube

Competency 6: The student will demonstrate that they can give an injection to a horse or cattle by:
1. Recognizing approved locations
2. Recognizing the effects of intramuscular injections on food animals
3. Displaying approved techniques in giving intramuscular injections

Competency 7: The student will demonstrate knowledge of individual species behavior and ability to work safely with the various species by:
1. Recognizing signs of distress in the various species

2. Assessing how to approach the horse safely
3. Displaying proper behavior when working in various large animal environments

Competency 8: Students will be able to restrain and use appropriate restraining devices for large animals by:
1. Demonstrating knowledge of the various methods of restraint and devices used
2. Demonstrating that they can safely use restraint equipment
3. Demonstrating that they can operate a cattle squeeze chute

Learning Outcomes:
- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Describe how natural systems function and recognize the impact of humans on the environment