



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**

**VET1210 Large Animal Procedures and Nursing**

**2 Semester Hours**

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**Student Learning Outcomes and Enabling Objectives**

1. Recognize common domestic large animal species and breeds.
  - a. Identify common equine breeds.
  - b. Identify common bovine breeds.
  - c. Identify common caprine breeds.
  - d. Identify common ovine breeds.
  - e. Identify common swine breeds.
2. Summarize the principles of restraint for large animals.
  - a. Demonstrate equine restraint techniques.
    - i. Apply equine halter
    - ii. Tie and lead a horse
    - iii. Apply twitch (horses) group
  - b. Demonstrate bovine restraint techniques.
    - i. Apply bovine tail restraint
    - ii. Apply bovine halter
    - iii. Operate cattle chute group
  - c. Explain restraint of sheep and pigs.
  - d. Explain how to load large animals
3. Perform physical exam on cattle and horses.
  - a. Obtain rectal temperature and classify as normal or abnormal.
  - b. Palpate pulse and classify as normal or abnormal.
  - c. Determine respiration rate and classify as normal or abnormal
  - d. Auscultate heart/lungs and classify as normal or abnormal
  - e. Evaluate mucus membranes and classify as normal or abnormal.
  - f. Perform a capillary refill time and classify as normal or abnormal
4. Outline patient care procedures and common therapeutic techniques in large animal species.
  - a. Explain the technique of trimming of hooves (ruminant, horse).
  - b. Perform venipuncture for treatment or blood sampling.
    - i. Demonstrate jugular venipuncture (horse and ruminant)

- ii. Explain coccygeal venipuncture (cattle)
- c. Explain the procedure for jugular catheter placement in horses.
- d. Demonstrate administration of enteral medications by:
  - i. Balling gun (ruminant)
  - ii. Dose syringe (horse)
- e. Demonstrate parenteral injection techniques and sites – subcutaneous, intramuscular, intradermal.
  - i. Demonstrate intramuscular injection on horse
  - ii. Demonstrate intravenous injection on horse and cattle
  - iii. Demonstrate subcutaneous injection – cattle
- f. Describe the procedure and maintenance of naso-gastric intubation -horse.
- g. Explain the usage of an oral speculum and stomach tube (ruminant, horse).
- h. Explain the process for floating equine teeth.
- i. Explain and demonstrate the application and removal of equine leg and tail wraps.
- j. Explain the procedure for cleaning an equine sheath.
- k. Perform the procedure for collection of milk samples and California mastitis testing.
- l. Explain the preparation of a mare for vaginal examination and cervical culture.
- m. Explain intramammary treatment administration methods.
- n. Interpret when Caslick's operation is appropriate in the horse.
- o. Describe the proper usage of the emasculator in the horse.

## **Big Ideas and Essential Questions**

### **Big Ideas**

- Breed recognition
- Physical exam and appropriate restraint techniques
- Collection of diagnostic specimens
- Administration of medications
- Nursing procedures for large animals

### **Essential Questions**

1. What are the breed characteristics for equine, bovine, caprine, ovine and swine?
2. What are the safe and appropriate restraint techniques for large animals?
3. What are the criteria for a physical exam for large animal species?
4. What samples are required for diagnostic testing in large animals?
5. How are nursing and therapeutic procedures performed in large animals?

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These SLOs are not approved for experiential credit.

**Effective: Spring 2021**