



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

**VET1110 Laboratory and Exotic Animal Procedures
and Nursing
2 Semester Hours**

Student Learning Outcomes and Enabling Objectives

1. Assess the basic principles of animal research.
 - a. Explain the purpose and outcomes of animal research.
 - b. Explain the function and purpose of the IACUC.
 - c. Explain the components and purpose of animal use policies and regulations.
 - i. Explain the 3Rs and their role in animal research.
 - d. Contrast animal rights vs. animal welfare.
 - e. Describe the role of the veterinary team in animal research.

2. Outline State, Federal and Local animal welfare regulations
 - a. Discuss the scope and function of key agencies involved with animal regulation as it pertains to animals used in research
 - b. Discuss the scope and function of key agencies involved with animal regulation as it pertains to animals displayed by licensed exhibitors
 - c. Discuss the scope and function of key agencies involved with animal regulation as it pertains to the care and possession of non-domestic species
 - d. Detail the concerns and considerations in rehabilitating orphaned, injured or diseased wildlife.

3. Summarize safe and effective veterinary care of common laboratory animals (mice, rats, rabbits)
 - a. Recognize different species and breeds
 - b. Determine the sex.
 - c. Demonstrate the ability to properly handle and restrain
 - d. Explain basics of proper husbandry and care
 - e. Perform methods of injection.
 - f. Describe proper techniques for blood collection
 - g. Explain the principles of anesthesia, including recovery
 - h. Identify clinical signs of common diseases

- i. Explain the principles of diagnostic imaging.
4. Summarize safe and effective veterinary care of non-traditional companion animals including avian, reptile, amphibian, and small mammals (guinea pigs, chinchillas, gerbils, hamsters, and ferrets).
 - a. Recognize different species and breeds.
 - b. Describe proper and safe techniques for restraint and handling
 - c. Explain species-specific husbandry concerns and proper methods of care.
 - d. Understand proper and safe techniques for completing physical examinations
 - e. Demonstrate the ability to trim nails (when applicable).
 - f. Describe species appropriate sites and routes for administering medications.
 - g. Describe species appropriate sites for venipuncture and blood collection.
 - h. Recognize normal and abnormal behavioral patterns.
 - i. Examine the challenges in keeping non-domestic species as pets.
 - j. Create client educational materials to support the care of non-traditional pets.
5. Explain safe handling techniques for non-human primates
 - a. Recognize proper restraint techniques
 - b. Describe primate-specific risks of zoonotic and reverse-zoonotic disease transmission.
6. Outline zoonotic diseases and modes of transmission related to non-domestic species.

Big Ideas and Essential Questions

Big Ideas

- Animal Research Principles
- Welfare Regulations
- Safe Veterinary Care for Lab Animals
- Safe Veterinary Care for Non-Traditional Animals
- Handling Techniques for Non-human Primates
- Zoonotic Diseases

Essential Questions

1. To what extent should non-domestic species be kept by human beings for research, exhibition or pet ownership?
2. How does and should the concept of animal welfare intersect with the practice of animal research?
3. What is necessary to provide proper care for an exotic or non-traditional pet?
4. What is the role of the veterinary team in helping overcome the innate challenges of owning non-traditional pets?

These SLOs are not approved for experiential credit.

Effective: Spring 2022