

Course Competency

ATE 2671C LAB ANIMAL MEDICINE

Course Description

This foundation course provides instruction on laboratory animal care. Students will learn the technical aspects of laboratory animal care, including restraint and handling, common diseases and nutrition. The animals studied include rabbits, rats, mice, guinea pigs, hamsters and primates. A.S. degree credit only. (1 hr. lecture; 2 hr. lab)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate understanding of the concept of a laboratory animal by:	 Environmental Responsibility Social Responsibility Computer / Technology Usage Communication Critical thinking Ethical Issues
 Citing the major reasons animals are used in research. Identifying examples of research protocols and the purpose of good record keeping. Explaining the concept of animal models for research. Discussing the reasons animals are used for projects and the processes for choosing the animal. 	
Competency 2: The student will demonstrate understanding of the role of animals to medical science by:	
 Citing how animal research has helped humankind in the discovery and control of human diseases, the utilization of vaccines, blood transfusions, nutrition and surgical procedures. Defining the mechanism of antibody production, including monoclonal antibodies, and their use in human 	

medicine.	
Competency 3: The student will demonstrate understanding of the philosophical basis for the use of animals in medical research by:	
 Differentiating between the animal welfare and animal rights. Explaining alternative methods of animal use in research. Identifying the number and species of animals used annually in research facilities across the United States. Discussing the AVMA position in the use of animals in research. Explaining the Animal Welfare Act and how it is enforced. Differentiating between animal use and animal abuse. Discussing the Animal Care and Use Committees and their scope and power. 	
Competency 4: The student will demonstrate understanding of the role of the veterinary technician in the research team by:	
 Defining the duties of the lab animal tech. Describing the husbandry guidelines. Analyzing the importance of maintaining accurate and detailed records. Describing approved methods of euthanasia for laboratory animals. 	
Competency 5: The students will perform basic procedures on various species by:	
 Demonstrating proper restraint for the mouse, rat and rabbit. Performing subcutaneous injection on mouse/rat, rabbit. Identifying intraperitoneal (mouse/rat) as a group. Collecting a blood sample intravenously on mice/rat, rabbit as a group. Performing oral dosing (mouse/rat) group. 	

Updated: FALL TERM 2022