Program Outcomes: Laboratory Animal Care Concentration

Coursework Objectives

- Understand and explain the evolutionary relationships between the major groups of animals, their relationships with their habitats, and with other groups of organisms;
- Identify the appropriate external and internal structures and their functions in representative organisms, with emphasis on the vertebrates;
- Identify some of the distinguishing characteristics of the major animal groups studied, and be able to recognize and/or give examples of organisms belonging to these major groups;
- Identify using the microscope and diagrams, representative examples of the major somatic tissue groups, and to demonstrate understanding of their characteristics, functions, and location in the vertebrate organism;
- Recognize some of the factors which influence human health, and the causes and symptoms of some common human diseases;
- Learn and demonstrate lab skills associated with the objectives listed above;
- Be able to explain the basic concepts of biology in written and oral form;
- Apply the concepts learned to better understand the biological world and the problems that affect our society, in general, and the life of the individual student, in particular.

In addition, through the internship the students will gain additional knowledge on applied biology of lab animals (e.g., nutrition, environmental stressors, genetics and breeding, animal diseases and preventive medicine practices, manipulative skills, occupational safety).