ATEC - ANIMAL SCIENCE TECH LECTURE/LAB

ATEC 1671 Laboratory Animal Medicine
Credit Hours: 2
Lab Fee: Yes
This course introduces technical clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition. The animals studied include rabbits, mice, rats, guinea pigs, hamsters, and primates. Also discussed are institutional animal care and use in research facilities, basic physiologic characteristics, reproduction, common diseases of laboratory animals, regulations pertaining to laboratory animal care, and organizations that regulate laboratory animal care.

ATEC 2050 Domestic Animal Breeds and Behavior
Credit Hours: 2
This course familiarizes the student with normal canine and feline behavior including breed specific behaviors and drives, learning theory, and behavior modification techniques. Causes and treatment of behavioral issues, by pharmacologic and other methods, will also be discussed. A general overview of normal and abnormal equine and exotic animal behavior will be presented. This course will also cover the origins and evolution of dog and cats from breed types to nationally recognized breeds, including breeding conflicts and dilemmas and their short- and long-term effects on breed quality. The effects of breeding on behavior and the hypothetical future for many of our breeds will also be discussed.

ATEC 2722 Avian and Exotic Animal Medicine
Credit Hours: 2
Prerequisites: ATE1211 and ATEL 1671, both courses with a grade of "C" or higher
Lab Fee: Yes
This course acquaints the student with the fundamentals of avian and exotic pet husbandry, physiology, management, and medicine. Reptiles, birds, and exotic mammals will be emphasized. Fish and amphibians will be introduced.

ATEC 4640 Laboratory Animals and the IACUC
Credit Hours: 4
Prerequisites: HSC 3741 a grade of "C" or higher
Lab Fee: Yes
This course introduces students to care and handling of laboratory animals, use of animals as research models, and the history and composition of and necessity for the Institutional Animal Care and Use Committee (IACUC) in controlling research practices. The roles of groups such as the American Association for Laboratory Animal Science (AALAS), and Association for Assessment and Accreditation of Laboratory Animal Care international (AAALAC) will be discussed. Governmental control of laboratory animal research will also be discussed including the Animal Welfare Act (AWA), Good Laboratory Practices (GLP), Office for Laboratory Animal Welfare (OLAW), Institute of Laboratory Animal Resources (ILAR), and the roles of the United States Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS), National Institutes of Health (NIH), and Food and Drug Administration (FDA).