VTHT 2213
AUSTIN COMMUNITY COLLEGE
Semester: Fall 2022 Synonym: 51226

PROGRAM: **Veterinary Technology**

COURSE NUMBER: **VTHT 2213 Laboratory Animal Clinical Management**

COURSE TIME/LOCATION: **Lecture: Tuesdays 10:30am-11:20am**
Lab: Tuesdays 1pm-3:50pm

FACULTY NAMES: **Amanda Schoolcraft, BS LVT, Kate Peterson, BS LVT**

OFFICE HOURS/LOCATION: **Email instructor for virtual/in person appointments**

Phone: 512.223.9487
Email: amanda.schoolcraft@austincc.edu;
katie.peterson@austincc.edu
Website: www.austincc.edu/health/vtht

COURSE DESCRIPTION: Survey of feeding, management practices, and care of laboratory animals in a clinical setting. Review of common diseases of laboratory animals encountered in the practice of veterinary medicine.

- **Credit Hours:** 2
- **Classroom Contact Hours per Week:** 1 hour
- **Laboratory Contact Hours per Week:** 2 hours 50 minutes

COURSE PREREQUISITES: VTHT 1301, 1413, 2301, & 1349

COURSE RATIONALE: This is an introductory course to familiarize the student with the research model and species that are used in research. The course will also introduce exotic species and their general husbandry.

COURSE OBJECTIVES: Upon completion of the course, the student will be able to:

1. Safely and effectively handle common types of animals (mice, rats, & rabbits) used in animal research. Be able to:
   - Recognize and restrain mice, rats and rabbits
   - Determine sex and understand reproduction
   - Perform and/or supervise basic care procedures:
     - handling appropriately
     - define nutritional needs/diet
     - watering
     - feeding
     - identification
   - Perform methods of injection:
     - subcutaneous
     - intramuscular (rabbit)
     - intraperitoneal (rats,mice)
   - Collect blood samples

    - Retro-orbital (mice, rats) [Group]
    - Intravenous (rats, rabbits)
  - Perform oral dosing [Group]
  - Describe anesthesia and recovery procedures of laboratory animals, mice, rats & rabbits
  - Explain common disease signs
  - Perform necropsy and collect specimens
2. Describe restraint of non-human primates
3. List several zoonotic diseases and modes of transmission
4. Describe how to provide safe and effective care for birds, reptiles, amphibians, guinea pigs, hamsters, gerbils, and ferrets.
5. Recognize, understand, and perform restraint techniques of birds.
6. List unique husbandry issues for each species (birds, reptiles, amphibians, guinea pigs, hamsters, gerbils, and ferrets) and provide client education:
    - nutritional needs/diet
    - watering
    - caging (temperature, humidity, light)
    - aquarium care
    - understand reproduction
    - basic grooming (beak, wing, and nail clipping)
    - appropriate transportation methods
7. Describe how to obtain objective data: birds, reptiles, amphibians, and ferrets
8. Describe how to administer drugs or medications using appropriate sites and routes
9. List appropriate sites for catheter placement
10. Describe tube feeding in birds
11. Recognize normal and abnormal behavior patterns of exotic species
12. Be able to explain inadvisability of keeping wildlife as pets
13. Describe appropriate sites/methods of blood collection.

PROGRAM STUDENT LEARNING OUTCOMES:
These learning outcomes are listed in the Veterinary Technology Student Handbook.

SCANS Competencies
In 1990, the U.S. Department of Labor established the Secretary's Commission on Achieving Necessary Skills (SCANS) to examine the demands of the workplace and whether our nation's students are capable of meeting those demands. The Commission determined that today's jobs generally require competencies in the following areas:

Resources: Identifies, organizes, plans and allocates resources
Interpersonal: Works with others
Information: Acquires and uses information
Systems: Understands complex interrelationships
Technology: Works with a variety of technologies

The Texas Higher Education Coordinating Board requires that all degree plans in institutions of higher education incorporate these competencies and identify to the student how these competencies are achieved in course objectives.

VTHT 2213 COMPETENCE	EXAMPLE OF LEVEL
Resources	Identifies resources used in course and allocates time for studying.
Interpersonal	Shares experiences and knowledge with classmates, works as a member of a team for any assigned activities.
Information	Identifies various exotic species and can verbalize qualities of having as a pet.
Systems	Gains understanding of complex husbandry requirement of some species.
Technology	Uses on-line resources to find related husbandry information and disease prevention.
Basic Skills	Reads assigned pages.
Thinking Skills	Identifies and prepares for tests, quizzes and research activities.
Personal Qualities	Works as a team member for any assigned activities. Asserts self and networks with classmates and virtual lab to obtain information on current topics.

TEXTBOOK:
Laboratory Animal Medicine: Practices and Procedures, Margi Sirois; 3nd Edition, 2023

INSTRUCTIONAL METHODOLOGY: Onsite lecture and laboratory

LEARNING: For this class, students will use the **Blackboard** learning management system for assignment instructions, submitting assignments, and collaboration.

GRADING SYSTEM: The Veterinary Technology courses use the following scale for determination of final grades:

A = 92-100%
B = 83-91%
C = 75-82%
D= 60-74
F = below 60

A grade of 75% or above is required for lecture, lab, and kennel duty to pass this course. Grade of D is allowed for ACC records, but will disqualify student for progression through the program. Due to the nature of the program, you would not be able to take the class again until the following academic year – if there is space available. You must pass the lecture and lab portions with a 75% or above to pass the class. If you have a 75% or above in each section, the grades will be combined to calculate your final grade.

This class has essential skills associated with it. Our accrediting body, the CVTEA, sets these. It is the student's responsibility to ensure that these skills are successfully completed in the presence of program faculty and documented in Salthouse by the end of the semester. **Final grades are not rounded.**

Before a student may progress to a subsequent semester, the student must demonstrate proficiency in the essential skill(s) required of each class. Duplicate essential skills requirements may be present in multiple classes or semesters, and students may be required to demonstrate proficiency in essential skills multiple times. At the sole discretion of the instructor, exceptions to the above requirements may be granted in the event that insufficient time exists to teach one or more essential skills adequately. If a student fails to complete any assigned skill for the semester, the instructor(s) and program chair will review the case to determine student progression.

**If a lab is missed that essentials skills are involved, excused or unexcused, it is the student's responsibility to source the animal that was used and bring that animal to the college and demonstrated those skills in front of the instructor(s).

METHOD OF EVALUATION:

- 10 % - Assignments, Quizzes and Presentation
- 48 % - Exams
- 30 % - Laboratory
- 12 % - Final

**(Assignments/quizzes, exams and final are all part of your lecture grade)

***** NOTE:** You must pass the **lecture** and **kennel duty** portion with a 75% or above to pass the class. **Final grades for each portion are not rounded.**

Late Assignment Policy: Assignments are expected to be turned in on time. If for some reason you are not able to get it turned in on time you can submit the next business day for a 50% deduction. The assignment can be submitted in person, faxed, or scanned and emailed to the instructor.

Absences: All students are expected to be in class or lab on time. If a class or lab is missed, it is considered either excused or unexcused by the instructor. An absence will be determined by the following criteria.

> **Excused absences** refer to unavoidable circumstances that prevent a student from attending class/lab on time that could not have been previously prevented by the student. Examples include illness, medical emergency, death in the family.
>
> **Unexcused absences** refer to circumstances that prevent a student from attending class/lab on time that could have previously been prevented by the student. Examples include vacation, oversleeping, work, traffic, etc.

Only 2 excused absences will be permitted each semester. All absences thereafter will be reported as unexcused and will result in a loss of credit for the lecture or lab.

Exam Policy: You are expected to take all exams when scheduled. Exams for this class will be given online via Blackboard using the Respondus Lockdown Browser. Additional information about the downloading and using the lockdown browser is available on the course Blackboard page.
To take an exam at a time other than the scheduled time in which it is given, the absence must be considered an **excused absence** by the instructor. Written evidence must be presented. If you miss an exam, arrangements must be made up within a week of when it was given. If it is not taken by that time, you will receive a zero for that exam. Only one exam may be made up during this course. If more than one exam is missed, you will receive a zero on all other missed exams.

COURSE POLICIES:

Attendance/Class Participation: Regular and timely class participation in discussions and completion of work is expected of all students.

For each time a student is late for:

- **lecture - 5pts** will be deducted from the overall Lecture grade.

- **Lab - 10pts** will be deducted from the overall Lab grade

If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

Laboratory Attendance: Laboratories are critical! Most labs are off campus and cannot be made up. These labs allow the students to perform their essential skills needed to complete Veterinary Technology Program. If a lab is missed because of an **unexcused absence**, **10% will be deducted from the overall Lab Grade and no make-up lab will be given.**

3 missed labs will result in a 70% in the lab portion of the class. This is below the 75% needed to pass the lab and will result in failure of the class.

In the event the college or campus closes due to unforeseen circumstances (for example, severe weather or other emergency), the student is responsible for communicating with their professor during the closure and completing any assignments or other activities designated by their professor as a result of class sessions being missed.

Withdrawal Policy
It is the responsibility of each student to ensure that his or her name is removed from the roll should he or she decide to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is submitted **before** the Final Withdrawal Date.
The student is also strongly encouraged to retain their copy of the withdrawal form for their records.
November 17, 2022 is the final withdrawal date.
Students are responsible for understanding the impact that withdrawal from a course may have on their financial aid, veterans' benefits, and international student status. Per state law, students enrolling for the first time in Fall 2007 or later at any public Texas college or university may not withdraw (receive a W) from more than **six courses** during their undergraduate college education. Some exemptions for good cause could allow a student to withdraw from a course without having it count toward this limit. Students are strongly encouraged to meet with an advisor when making decisions about course selection, course loads, and course withdrawals."

Incompletes: Due to the cohort nature of our program, a grade of incomplete cannot be issued.

TECHNOLOGY SUPPORT SERVICES: Austin Community College provides free, secure drive-up WiFi to students and employees in the parking lots of all campus locations. WiFi can be accessed seven days a week, 7 am to 11 pm. Additional details are available at https://www.austincc.edu/sts.

Students who do not have the necessary technology to complete their ACC courses can request to borrow devices from Student Technology Services. Available devices include iPads, webcams, headsets, calculators, etc. Students must be registered for a credit course, Adult Education, or Continuing Education course to be eligible. For more information, including how to request a device, visit http://www.austincc.edu/sts.

Student Technology Services offers phone, live-chat, and email-based technical support for students and can provide support on topics such as password resets, accessing or using Blackboard, access to technology, etc. To view hours of operation and ways to request support, visit http://www.austincc.edu/sts.

Course Outline / Calendar - Please note that schedule changes may occur during the semester. Any changes will be announced in class and posted as a Blackboard Announcement (or other resource faculty is using to communicate).

Week 1 Aug 23	Introduction to Lab Animal Research Model	Chapters 1 & 2	Selection of Species for Semester Project, Syllabus, Research Discussion

Week 2 Aug 30	Mice and Rats as research animals	Chapters 6	**Pan America Labs @ 1:30pm**
Week 3 Sept 6	Mice and Rats as research animals	Chapters 6	**Guest Lecturer -- Dr. Stanton Gray @ 1:30pm**
Week 4 Sept 13	Small Rodents as Pets Gerbils, Hamsters, mice, rat	Chapter 10	*(catch-up for exam 1)* Lecture Rat/Mouse handling
Week 5 Sept 20	**Exam #1**		**Reptile/Avian Lab**
Week 6 Sept 27	Rabbits / Guinea Pigs	Chapters 7 & 8	**Cameron Park Zoo - @ 11am**
Week 7 Oct 4	Ferrets	Chapter 9	**UTC ARC -- Tour @ 1:30pm**
Week 8 Oct 11	Fish & Misc. Research Animals	Chapter 5	**UT ARC -- Mice @ 1:30pm**
Week 9 Oct 18	Reptiles	Chapter 4	**UT ARC -- Rats @ 1:30pm**
Week 10 Oct 25	**Exam #2**		**UT ARC -- Rabbits @ 1:30pm**
Week 11 Nov 1	Amphibians	Chapter 5	**Wildlife Center arrive @ 1:30pm**
Week 12 Nov 8	Birds		**TBD**
Week 13 Nov 15	Non – Human Primates Zoo Animal Medicine	Chapter 12 & 13	**Exam #3**
Week 14 Nov 22	Non – Human Primates Zoo Animal Medicine	Chapter 12 & 13	**Guest Lecturer -- Dr. Stanton Gray**
Week 15 Nov 29	Research Project Reports Review for Final		**All Research projects DUE!**
Week 16 Dec 6	**Final**		**Final Exam**

***There are still a few field trips to be scheduled and this is subject to change.**

Austin Wildlife Rescue Rehab Center
111 Elbow Bend Elgin, TX 78621

UT Research Lab
2701 Speedway, Austin, TX 78712

Pan America Lab
4735 Co Rd 309, Lexington, TX 78947

Waco Zoo
1701 N 4th St, Waco, TX 76707

VTHT 2213 – Laboratory Animal Clinical Management

By signing below, I declare that I have received a copy of the course syllabus for VTHT 2213 Laboratory Animal Clinical Management and have had a chance to review it and understand the contents of the syllabus. This is for the semester inclusive of the date below.

_____ _____

Student Signature Date