

VTHT 1349
AUSTIN COMMUNITY COLLEGE
Semester: Summer 2022 [# from Blackboard]

PROGRAM: Veterinary Technology

COURSE NUMBER: VTHT 1349 – Veterinary Pharmacology

COURSE TIME/LOCATION: May 31 – August 8, 2022

Lecture: Elgin campus

Tuesday 9:30am – 10:30am

Thursday 8:00am – 10:30am EGN 2127

Lab: Elgin campus

Section 1

Monday 9:00am – 11:10am

Tuesday 2:30pm – 4:45pm EGN 2139

Section 2

Monday 1:00pm – 3:10pm

Thursday 2:30pm – 4:45 EGN 2139

FACULTY INFORMATION:

Name	Office	Phone	Email
Kerry L. Coombs, DVM	2111	512-223-9428	Kerry.Coombs@austincc.edu
Amanda Schoolcraft BS, LVT	2112	512-223-9487	Amanda.Schoolcraft@austincc.edu
Edna Noya, LVT	2109	512-223-XXXX	Edna.Noya@austincc.edu

Arranging conferences/appointments: Email instructor for virtual or in person appointment

WEBSITE: sites.austincc.edu/health/vtht/

COURSE DESCRIPTION: This lecture and laboratory course covers the fundamentals of pharmacology including recognition, calculation, labeling, packaging, and administration of veterinary drugs, biologics, and therapeutic agents. Other topics to be covered include: mechanism of drug actions, normal and abnormal responses to medication, toxicity, routes and techniques of administration, dosage calculation and measurement, and proper methods of handling, storing, and dispensing drugs. The class will also cover pharmacy mathematics. This course is designed to prepare veterinary technicians to perform pharmacologic calculations and procedures in veterinary practice.

- **Credit Hours:** XX
- **Classroom Contact Hours per week:** XX
- **Laboratory Contact Hours per week:** XX

Transferability of workforce courses varies. Students interested in transferring courses to another college should speak with their Area of Study (AoS) Advisor, and/or Program Director.

COURSE PREREQUISITES: VTHT 1301, 1413, and 1217

COURSE RATIONALE: This is an intermediate level course for students in the Veterinary Technology program at Austin Community College. The purpose is to help the student develop a clear understanding and appreciation of the complex nature of veterinary pharmacology. This course will prepare students with the knowledge and experience required to work successfully in the veterinary pharmacy. Students will also be prepared to continue their education in the veterinary technology program.

COURSE OBJECTIVES: Upon completion of the course the student will be able to: Identify general types and groups of drugs; prepare, label, package, and dispense pharmaceuticals in an ethical/legal manner; calculate dosages using proper weights, units, and measures; explain and use appropriate routes and methods of drug administration; and differentiate between normal and abnormal responses to medication.

1. Explain general principles of pharmacology (pharmacodynamics/pharmacokinetics).
2. Explain the mechanism of action of specific drugs.
3. List general types and groups of drugs.
4. Differentiate between normal and abnormal, desired and undesired responses to medication.
5. Be aware of side effects which occur with specific drugs.
6. Discuss drug-drug interactions.
7. Describe the toxicity potential of specific drugs.
8. Be familiar with and know how to use various drug references.
 - a. Read and follow veterinarian's pharmacy orders and prepare medications; perform accurate calculations; label and package dispensed drugs correctly.
 - b. Recognize groups of drugs, their mechanisms, and clinically relevant side effects.
 - c. Accurately perform appropriate calculations; use weights and measures correctly.
 - d. Discuss how to safely and effectively administer drugs by common parenteral and enteral routes; be able to explain appropriate routes and methods and when used.
 - e. Monitor therapeutic responses.
9. Understand principles of fluid and electrolyte replacement; calculate doses and administration rates.
 - a. Demonstrate the ability to accurately record medical information.
 - b. Demonstrate understanding of controlled substance regulations, including record-keeping.
 - c. Demonstrate compliance with all federal regulatory guidelines for drug purchase, storage, administration, withdrawal, dispensing, disposal, and inventory control (e.g., therapeutic agents, pesticides, and hazardous wastes).
 - d. Demonstrate compliance with regulations governing legend drugs versus over-the-counter drugs.
 - e. Relay drug information to clients (e.g., handling, storage, administration, side-effects, drug interactions, safety, reasons for use of drug).

PROGRAM STUDENT LEARNING OUTCOMES: See blackboard.

SCANS Competencies: The Secretary's Commission on Achieving Necessary Skills (SCANS) was established in 1990 to determine skills students need to succeed in the workplace. 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 1349 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 drug types, and categorizes according to action or use.
Systems	Identifies systems affected by the pharmaceutical and has to match expected outcome of drug administration.
Technology	Uses online databases and information to look for drug actions and trade names of identified drugs.
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.

TEXTBOOKS:

[Clinical Pharmacology and Therapeutics for Veterinary Technicians](#), 4th ed, Robert L. Bill, Elsevier, 2017
[Essential Calculations for Veterinary Nurses and Technicians](#), 3rd ed, Terry Lake, Butterworth-Heinemann, 2016

INSTRUCTIONAL METHODOLOGY: [Classroom Lecture and Laboratory](#)

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

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

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, lab, and kennel duty portions with a 75% or above to pass the class. If you have a 75% or above in all portions, 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 Salt House 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.

METHOD OF EVALUATION: (Approximate values)

- 30% on exams, quizzes, lecture assignments, presentations, and attendance
- 60% on laboratory work including exams, quizzes, assignments and attendance
- 10% on kennel duty assignments (see Kennel Duty Grading Policy for details)

***** NOTE:** You must pass the **lecture, lab, and kennel duty** portion with a 75.0% or above to pass the class. **Final grades for each portion are not rounded.**

Attendance: Attendance is required for academic achievement. You are expected to be in lecture, lab, and kennel duty on time. If a student misses more than 10% of the contact hours, the progressive discipline will be implemented. If a student misses more than 25% of the contact hours, the student will be dropped from the class. If a lecture, lab, or kennel duty shift 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 on time that could not have been previously prevented by the student. You must contact your instructor within 24 hours of an absence. Examples include illness, COVID, medical emergency, death in the family, or other unavoidable circumstances (determined by instructor).

Unexcused absences refer to circumstances that prevent a student from attending on time that could have previously been prevented by the student. Examples include vacation, oversleeping, work, other person plans, or traffic, etc.

Only two (2) excused absences will be permitted each semester. All absences thereafter will be reported as unexcused absences, and they will result in a loss of credit for the lecture or lab. For extenuating circumstances only, you must meet with your instructor and explain the situation. It is the student's responsibility to schedule any possible make up of skills or material missed with the instructor. Arrangements must be scheduled within 1 week of the missed lab. Each unexcused absence will result in the following:

- Lecture – You will receive a 0 for all assignments for that day.
 - o **Three (3) unexcused lectures will result in a 70% in the lecture portion of the class.** This is below the 75% needed to pass the course and will result in failure of the course.
- Lab – You will receive a 0 for the lab and any assignments from that day.
 - o **Three (3) unexcused labs will result in a 70% in the lab portion of the class.** This is below the 75% needed to pass the course and will result in failure of the course.
- Kennel duty – 10% will be deducted from the overall kennel duty grade.
 - o **Three (3) unexcused shifts will result in a 70% in the lab portion of the class.** This is below the 75% needed to pass the course and will result in failure of the course.

Regular and punctual class and laboratory attendance is expected of all students. If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class. ____ will be deducted from your grade.

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.

Exams: You are required to be present for all exams. If you miss an exam due to an **excused absence**, it must be made up within a week of when it was given, unless other arrangements are made. If it is not taken by that time, you will receive a "0" for that exam. To take an exam at a time other than the class time in which it is given, the instructor must **excuse** the absence. Written evidence may be presented or required. Make up exams can be an essay type of exam. Exams missed due to **unexcused absences** may not be made up. No GRADES WILL BE DROPPED.

Quizzes: You are required to be present for all quizzes. If you miss a quiz due to an **excused absence**, it must be made up within a week of when it was given, unless other arrangements are made. If it is not taken by that time, you will receive a "0" for that quiz. Written evidence may be presented or required. Make-up quizzes may be an essay type of quiz. Quizzes missed due to **unexcused absences** may not be made up. No GRADES WILL BE DROPPED. There will be occasional **pop** quizzes – unannounced quizzes to help reinforce learning.

Late Assignments: Assignments are expected to be turned in on time to the correct professor and the correct manor (in-person, Blackboard, etc.). If for some reason you are not able to get it turned in on time, you can submit it within 24 hours for a 50% deduction. The assignment can be submitted in person or emailed to the instructor. No assignments will be accepted after the 24-hour period. If a student knows they will miss a class, they can submit their assignment electronically for full credit before it is due. For any other circumstances, the student needs to contact the instructor.

It is the responsibility of each student to ensure that his or her name is removed from the rolls should they 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 recorded before the Final Withdrawal Date. The Final Withdrawal Date for this semester is [\[insert date here\]](#). The student is also strongly encouraged to keep any paperwork in case a problem arises.

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.

STUDENT TECHNOLOGY SUPPORT: 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>.

ADDITIONAL POLICIES: This section varies every semester and is sent via email before the start of the semester.

Lecture Course Outline/Calendar: Please note that schedule changes may occur during the semester. Any changes will be announced in class.

Date	Topic Area/Objective	Reading/Other Assignments	Activities
Week 1			
Week 2			
Week 3			
Week 4			
Week 5			
Week 6			
Week 7			
Week 8			
Week 9			
Week 10			
Week 11			
Week 12			
Week 13			
Week 14			
Week 15			
Week 16			

Lab Course Outline/Calendar: Please note that schedule changes may occur during the semester. Any changes will be announced in class.

Date	Topic Area/Objective	Reading/Other Assignments	Activities
Week 1			
Week 2			
Week 3			
Week 4			
Week 5			
Week 6			
Week 7			
Week 8			
Week 9			
Week 10			
Week 11			
Week 12			
Week 13			
Week 14			
Week 15			
Week 16			

VTHT 2331 – Clinical Pathology II

By signing below, I declare that I have received a copy of the course syllabus for [VTHT 2331, Clinical Pathology II](#) 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

Printed Student Name