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## **VETT 310-01E Veterinary Pharmacology**

**CRN 22984**

COURSE SYLLABUS: Spring 2025

Face-to-Face

Tuesday 1-250pm

### **INSTRUCTOR INFORMATION**

Instructor: **Marisa Rhyne, MAg, MS, BAS, LVTg, VTS (ECC, SAIM)**

Office Hours: **by appointment only**

University Email Address: [Marisa.Rhyne@tamuc.edu](mailto:Marisa.Rhyne@tamuc.edu)

Other Email Address: [MarisaRhyne@DallasCollege.edu](mailto:MarisaRhyne@DallasCollege.edu)

Preferred Form of Communication: **email**

Communication Response Time: **24 hours**

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

#### **Textbook(s)**

- **Required:**

- Fundamentals of Pharmacology for Veterinary Technicians, 3<sup>rd</sup> edition
  - By Janet Amundson Romich & Sarah Wagner
  - Publisher: Cengage
  - Textbook ISBN 9780357361474
  - eTextbook ISBN 9780357705940

**Software Required:** Any Internet vehicle including Google Chrome, Firefox, etc that follows that below supported browsers. Also, lecture materials, supplemental worksheets, videos, and slides will be available on D2L which will need to be opened using Adobe PDF, Microsoft Word, and Microsoft Power Point.

*The syllabus/schedule are subject to change.*

**Optional Texts and/or Materials:** There will be links to images, videos, and other supplemental materials.

## **Course Description**

This course familiarizes students with the fundamental knowledge and pharmaceutical principles of veterinary related drugs. This course will include, but not be limited to: nomenclature, pharmacokinetics, pharmacodynamics, mechanisms of action, the applications to each body system, indications, contraindications, methods of administration, drug schedules and controlled substances. Emphasis is placed on the role the veterinary technician plays in educating the client in the use of prescribed drugs in pets and production animals. The legal and ethical factors involved in handling pharmaceuticals are also considered. Prerequisites: Current enrollment in the second year of the professional Veterinary Biomedical Technology program. Corequisites: VETT 310.

## **Student Learning Outcomes**

1. The student will define and use appropriate terminology related to pharmacology and pharmacy.
2. The student will illustrate the four actions which define pharmacokinetics, to include factors that affect drug absorption and distribution, and the different mechanisms of biotransformation/metabolism and elimination.
3. The student will recognize the different dosage forms and routes of administration and explain the factors that influence the choice of form and route.
4. The student will identify and describe the different classifications of drugs used to treat and/or prevent various conditions of the different organ systems, including identifying specific examples for each drug class (both in generic and trade name form), describing the mechanism of action for each drug class, and discussing the indications of use and the normal and abnormal responses to these agents.
5. The student will discuss the legal issues and requirements related to purchasing, storing, dispensing, administering, and compounding pharmacologic agents, including the significance of withdrawal times in food producing animals.
6. The student will calculate dosages using proper weights, units, and measures.
7. The student will describe and discuss the various factors involved with managing pharmacy inventory.
8. Students will be able to appropriately dispense medication in any form (oral liquid, tablets, injectables, etc) into the appropriate dispensing vessel (pill vial, syringe, liquid bottle dispenser).
9. Students will follow the proper handling techniques of medication when dispensing and administering and will be able to educate coworkers and owners.

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10. Students will be proficient in client education of medication administration.

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed**

Examples include: Using the learning management system, using Microsoft Word and PowerPoint, using presentation and graphics programs, etc

### **Instructional Methods**

This section describes how the learning process will be conducted (delivery modalities, course structure, Getting Started and types of learning activities and assessments). This course is the lecture companion to the Pharmaceutical Calculations course from the Fall semester. This course will be delivered face-to-face.

### **Student Responsibilities or Tips for Success in the Course**

Examples include: Regularly logging into the course website, approximately 2 hours of weekly study and 2 hours of participation time expected. These anticipated times are an estimation and may require more or less.

## **GRADING**

The final grade in the course will be based on your accumulated total points during the semester according to the following distribution:

A = 900 - 1000 Points = 90-100%

B = 800 - 899 Points = 80-89%

C = 700 - 799 Points = 70-79%

D = 600 - 699 Points = 60-69%

F = 599 & below = less than 59%

Course grades come from:

4 Unit exams @ 100 points	400 points
10 Homework quizzes @ 10 points each	100 points
5 Exam Reviews @ 50 points each	250 points
Semester project	100 points
1 final exam @ 150 points	150 points
<b>TOTAL</b>	<b>1000 points</b>

1. Attendance

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- You are expected to come to class every meeting.
- Excessive absences will result in a deduction of overall course points.
- Excused absences must be discussed with the instructor within 48 hours of a missed class, preferably before.

## 2. Assignments/ Worksheets

- Late submissions: Submissions will be due at a specified date and time. Any time after the due date, the homework is considered late and may receive an automatic 10% reduction in the final score and a 5% reduction each day beyond the due date.

### **Assessments**

The unit exams (4) will be worth 100 points each with the final exam being worth 150 points. The unit exams will be given during our regularly scheduled class time, and you will have the entire period to complete it. The unit exams will be 50 questions worth 2 points each. Questions will be multiple choice, true/false, fill-in-the-blank, matching, and short answer. No scantron is needed for the unit exams, just a pen/pencil. Exams will have pharmaceutical calculations, so you are allowed a simple 4-function calculator. The final will be 75 multiple-choice questions that covers material from the beginning of the semester, requires a scantron (882E), and will be given during class time the week of 5/4, unless otherwise scheduled.

### **Assignments & Activities**

Quizzes will be due by the end of each week, and the exam reviews will be due by the end of the week of the unit exam. Both quizzes and exam reviews will be given specified due dates, detailed in D2L. Please see the late submission policy above for how late submissions will be handled.

## **TECHNOLOGY REQUIREMENTS**

### **LMS**

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

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<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

## **ACCESS AND NAVIGATION**

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a East TAMU campus open computer lab, etc.

## **COMMUNICATION AND SUPPORT**

If you have any questions or are having difficulties with the course material, please contact the Instructor. If you contact me by email Monday-Thursday, you can expect to hear back from me within 24 hours. Emails sent Friday after 3p through Sunday evening may not be receive a response until Monday.

### **Technical Support**

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

#### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

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## University Specific Procedures

### Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

### East TAMU Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

### Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)  
[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

### Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a

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learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

### **Office of Student Disability Resources and Services**

East Texas A&M University

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

### **Nondiscrimination Notice**

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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## East Texas A&M Supports Students' Mental Health

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit [www.tamuc.edu/counsel](http://www.tamuc.edu/counsel)

### COURSE OUTLINE / CALENDAR

Pharmacology tentative schedule:

Week (date)	Topic	Quiz#/due date	Assignment
1 (1/13)	Review syllabus, get textbook, start looking through chapters 1-6		Get your textbook and start looking through first few chapters
2 (1/19)	Ch 1 Hx, Ch2 Drug development, Ch3 Methods of drug admin	1 due 1/25	
3 (1/26)	Ch4 Pharmacokinetics, Ch5 Drug Use/RX, Ch6 Systems of measurement	2 due 2/1	
4 (2/2)	<b>Unit Exam #1 (1-6)</b>		Exam review #1
5 (2/9)	Ch7 Nervous system, Ch 13 Musculoskeletal	3 due 2/15	
6 (2/16)	Ch19 Fluid Tx/ECC, Ch22 Behavior Modifiers	4 due 2/22	
7 (2/23)	<b>Unit Exam #2 (7, 13, 19, 22)</b>		Exam review #2
8 (3/3)	Ch8 Cardiovascular, Ch9 Respiratory	5 due 3/8	
(3/9)	<b>Spring Break</b>		<b>Spring Break</b>
9 (3/16)	Ch11 Gastrointestinal, Ch12 Urinary	6 due 3/22	
10 (3/23)	<b>Unit Exam #3 (8, 9, 11, 12)</b>		Exam review #3
11 (3/30)	Ch14 Antimicrobial, Ch15 Antiparasitic	7 due 4/5	
12 (4/6)	Ch16 Anti-inflammatory, Ch21 Vaccines	8 due 4/12	
13 (4/13)	<b>Unit Exam #4 (14, 15, 16, 21)</b>		Exam review #4

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14 (4/20)	Ch10 Reproduction, Ch17 Skin	9 due 4/26	
15 (4/27)	Ch18 Eye/Ear, Ch20 antineoplastic Projects due end of week	10 due 5/3	Exam review #5 (just new topics)
16 (5/4)	<b>Final Exam (cumulative)</b>		<b>Final Exam</b>

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