



VETT 311-001 Veterinary Pharmacology Calculations

CRN 202680

COURSE SYLLABUS: Fall 2026

Face-to-Face

Thursday 3-4:50 pm

INSTRUCTOR INFORMATION

Instructor: **Hannah Buchanan, DVM**

Office Hours: **Thursdays 2-3 pm, virtual or by appointment**

University Email Address: **Hannah.Buchanan@tamuc.edu**

Preferred Form of Communication: **email**

Communication Response Time: **24-48 hours**

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s)

- **Required:**
 - Practical Math for Veterinary Technicians
 - By Marianne Tear and Susan Burcham
 - Publisher: bluedoor, LLC
 - Textbook ISBN 978-1-64386-264-4
 - eTextbook ISBN

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.

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

The syllabus/schedule are subject to change.

Course Description

This course familiarizes students with the fundamental knowledge of calculating veterinary pharmaceutical drugs. This course will include, but not be limited to: the metric system, converting units within the metric system, both standard and nonstandard conversions, dose and dosage calculation for all administration routes and the clinical application of the previous topics. Emphasis is placed on the role the veterinary technician plays in the calculation and administrative process. 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.

Student Learning Outcomes

1. The student will understand and convert units within the metric system.
2. The student will convert pounds to kilograms and vice versa.
3. The student will perform both standard and nonstandard conversions.
4. The student will calculate doses provided by a veterinarian both in liquid and tablet/capsule form.
5. The student will be able to perform fluid calculations based on a patient's dehydration, biological status and ongoing loss.
6. The student will calculate dosages using proper weights, units, and measures.
7. The student will calculate anesthetic protocols correctly.
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 calculate constant rate infusions.
10. Students will calculate toxic doses.

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.

The syllabus/schedule are subject to change.

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 = 630 - 700 Points = 90-100%
- B = 560 - 629 Points = 80-89%
- C = 490 - 559 Points = 70-79%
- D = 420 - 489 Points = 60-69%
- F = 419 & below = less than 59%

Course grades come from:

3 Unit exams @ 100 points	300 points
10 HW assignments @ 10 points each	100 points
4 quizzes @ 25 points each	50 points
Semester project	100 points
1 final exam @ 150 points	150 points
TOTAL	700 points

1. Attendance

- 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 (3) 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

The syllabus/schedule are subject to change.

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, true/false, fill-in-the-blank, matching, and short answer questions that covers material from the beginning of the semester and will be given during class time the week of 12/7, unless otherwise scheduled. Quizzes (4) will be worth 25 points each and will be given during our regularly scheduled class time. You will have an allotted time to complete this quiz (between 10-25 minutes, depending on the quiz). Quizzes will have pharmaceutical calculations, so you are allowed a simple 4-function calculator.

Assignments & Activities

Homework assignments will be due weekly. Quizzes will be held during the beginning of class on assigned dates. 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

YouSeeU Virtual Classroom Requirements:

<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.

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

The syllabus/schedule are subject to change.

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 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.

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>

The syllabus/schedule are subject to change.

<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 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

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

The syllabus/schedule are subject to change.

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.

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



As an Institutional Member of the National Association of Schools of Music, East Texas State A&M University supports the Association's commitment to student health and

The syllabus/schedule are subject to change.

wellness. The following web address provides links to information for resources related to physical and mental well-being, as well as assists in offering preventative measures that students can take to avoid serious and/or chronic conditions: [Musician Health and Safety - East Texas A&M University](#)

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

COURSE OUTLINE / CALENDAR

Pharmacology tentative schedule:

The syllabus/schedule are subject to change.

Week (date)	Topic	Quiz#/due date	Assignment
1 (8/20)	Review syllabus, get textbook,	Quiz 1	Get your textbook,
2 (8/27)	Chapter 1 – the metric system Chapter 2 – body weight		HW 1 due 9/2
3 (9/3)	Chapter 3 – standard conversion		HW 2 due 9/9
4 (9/10)	Chapter 4 – nonstandard conversion	Quiz 2	HW 3 due 9/16
5 (9/17)	EXAM 1		
6 (9/24)	Chapter 5 – dose and dosage		HW 4 due 9/30
7 (10/1)	Chapter 6 – advanced dose/dosage		HW 5 due 10/7
8 (10/8)	FALL BREAK		FALL BREAK
9 (10/15)	Chapter 10 -toxic doses	Quiz 3	HW 6 10/21
10 (10/22)	Exam 2		
11 (10/29)	Chapter 7 – fluids		HW 7 due 11/4
12 (11/5)	Chapter 9 - CRI		HW 8 due 11/11
13 (11/12)	Chapter 8 – anesthesia	Quiz 4	HW 9 due 11/18
14 (11/19)	Exam 3		
15 (11/26)	THANKSGIVING BREAK	HW 10 due 12/4	THANKSGIVING BREAK
16 (12/3)	Exam review		Semester project due 12/4 HW 10 due 12/4
17 (12/10)	Final Exam (cumulative)		Final Exam

The syllabus/schedule are subject to change.