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## **VETT 340.01E Veterinary Clinical Pathology**

**CRN 85785**

COURSE SYLLABUS: Fall 2022

Online - myLeo

### **INSTRUCTOR INFORMATION**

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

Office Hours: **by appointment only**

University Email Address: **Marisa.Rhyne@tamuc.edu**

Preferred Form of Communication: **email**

Communication Response Time: **24 hours**

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

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

- **Required:**

- Laboratory Procedures for Veterinary Technicians 7<sup>th</sup> edition
  - By Margi Sirois, EdD, MS, RVT, CVT, LAT, VTES
  - Publisher Elsevier
  - ISBN 978-0-323-59538-4
- Essential Clinical Procedures for Veterinary Technicians 1<sup>st</sup> edition
  - By Kristin Loy
  - Publisher Blue Door
  - ISBN 978-1-68135-748-5

- **Recommended:**

- Laboratory Manual for Laboratory Procedures for Veterinary Technicians 7<sup>th</sup> edition
  - By Margi Sirois, EdD, MS, RVT, CVT, LAT, VTES

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- Publisher Elsevier
- ISBN 978-0-323-59540-7

**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.

## **Course Description**

### **VETT 340 Veterinary Clinical Pathology**

An introduction to Veterinary Clinical Pathology as it relates to normal and abnormal physiology of animal species. This course deals with the examination of blood, urine, exudates, and cells for diagnostic and prognostic purposes in veterinary practice. Topics include, but not be limited to: proper collection and preparation of biological samples, analysis of urine, blood, and cytological samples and necropsy procedure and sample collection

### **Student Learning Outcomes**

1. Students will demonstrate the ability to perform a variety of clinical pathology procedures to include those related to blood, urine, and tissue.
2. Students will effectively be able to identify common findings in a microscopic evaluation of blood, urine, and tissue.
3. Student will be able to properly collect, process and ship specimens to a referral laboratory for analysis.
4. Demonstrate the understanding of how to prepare, handle and submit appropriate samples for diagnostic analysis in order to ensure accuracy of results.
5. Students will learn their role as a veterinary technician, team member, and client educator in a laboratory, clinical, and diagnostic setting.

## **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). The

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lecture portion will be only. The lab portion will be delivered face to face on campus with lab report submissions being completed online and the exams will be on campus.

## 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 = 450 - 500 Points

B = 400 - 449 Points

C = 350 - 399 Points

D = 300 - 349 Points

F = 299 & below

Course grades come from:

4 lecture unit exams @ 50 points each	200 points
1 lecture final exam @ 100 points	100 points
2 case-based unit assignments @ 100 points each	200 points
<b>TOTAL</b>	<b>500 points</b>

### 1. Attendance

- You are expected to come to class every day.
- You may only miss one class during this time.
- Excused absences must be discussed with the professor 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 will receive an automatic 15% reduction in the final score and a 5% reduction each day beyond the due date.

## Assessments

The final Lab Practical Exam will be comprehensive/cumulative and will be given during lab time on: Time and Location TBA

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Lecture exams, unit and final, will include T/F, matching, multiple choice, multiple answer, identification, and short answer. These are to be completed and submitted online by the due date using Respondus Lockdown Browser. The exams are timed and you will have only one attempt.

## TECHNOLOGY REQUIREMENTS

### LMS

All course sections offered by Texas A&M University-Commerce 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:

<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 TAMUC campus open computer lab, etc.

## COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

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## **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>

## **Interaction with Instructor Statement**

# **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).  
<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>

### **TAMUC 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>

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## **Academic Integrity**

Students at Texas A&M University-Commerce 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**

Texas A&M University-Commerce

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**

Texas A&M University-Commerce 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.

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## Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce 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 A&M-Commerce 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 A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

## A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, 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

Clinical Pathology lecture:

Week	Topic and Chapters	Assignment
1 (8/29)	<b>Unit 1 - The Veterinary Practice Laboratory</b> Chapter 1 – Safety Concerns & OSHA Standards Chapter 2 – General Laboratory Equipment Chapter 3 – The Microscope Chapter 4 - The Metric System & Calculations Chapter 5 Quality Control & Record Keeping	
2 (9/4)	<b>Exam #1 – Unit 1 (The Veterinary Practice Lab)</b>	

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3/(9/11)	<b>Unit 2 - Hematology</b> Chapter 6 - Hematopoiesis Chapter 7 – Sample Collection & Handling Chapter 8 – Automated Analyzers	
4 (9/18)	<b>Unit 2 - Hematology</b> Chapter 9 – Hemoglobin, PCV, & Erythrocyte Indices Chapter 10 – Evaluating the Blood Smear Chapter 11 – Morphologic Abnormalities of Blood Cells	
5 (9/25)	<b>Unit 2 - Hematology</b> Chapter 12 – Additional Hematologic Tests Chapter 13 – Hematopoietic Disorders & Classification of Anemias	
6 (10/2)	<b>Exam #2 – Unit 2 (Hematology)</b>	
7 (10/9)	<b>Unit 3 - Hemostasis</b> Chapter 14 – Principles of Blood Coagulation Chapter 15 – Sample Collection & Handling Chapter 16 – Platelet Evaluation	
8 (10/16)	<b>Unit 3 - Hemostasis</b> Chapter 17 – Coagulation Testing Chapter 18 – Disorders of Hemostasis	
9 (10/23)	<b>Exam #3 – Unit 3 (Hemostasis)</b>	
10 (10/30)	<b>Unit 5 – Urinalysis</b> Chapter 25 – Anatomy & Physiology of the Urinary System Chapter 26 – Sample Collection and Handling Chapter 27 – Physical Examination of Urine	
11 (11/6)	<b>Unit 5 – Urinalysis</b> Chapter 28 – Chemical Evaluation Chapter 29 – Urine Sediment Analysis	
12 (11/13)	<b>Exam #4 – Unit 5 (Urinalysis)</b>	
13 (11/20)	Thanksgiving Week	
14 (11/27)	<b>Unit 9 - Cytology</b> Chapter 51 – Sample Collection and Handling Chapter 52 – Preparation of Cytology Smears	
15 (12/4)	<b>Unit 9 - Cytology</b> Chapter 53 – Microscopic Evaluation Chapter 54 – Cytology of Specific Sites	
16 (12/11) <b>Due 12/16/2021 by 1159pm CST</b>	<b>Final Exam online (comprehensive + cytology)</b>	<b>Case-based course assignment (report, PPT, or presentation board)</b>

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