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VETT 340.01W Veterinary Clinical Pathology

CRN 81163

COURSE SYLLABUS: Fall 2024

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 7th edition
 - By Margi Sirois, EdD, MS, RVT, CVT, LAT, VTES
 - Publisher Elsevier
 - ISBN 978-0-323-59538-4
- Laboratory Manual for Laboratory Procedures for Veterinary Technicians 7th edition
 - By Margi Sirois, EdD, MS, RVT, CVT, LAT, VTES
 - 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

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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 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

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. 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

B = 560 - 629 Points

C = 490 - 559 Points

D = 420 - 489 Points

F = 419 & below

Course grades come from:

Assignment	Points
8 lecture unit exams @ 50 points each	400 points
8 unit assignments @ 25 points each	200 points
1 final exam	100 points
TOTAL	700 points

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

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. The exams are timed and you will have only one attempt.

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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

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 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.

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>

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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>

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>

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>

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[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

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.

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](#)

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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

COURSE OUTLINE / CALENDAR

Clinical Pathology lecture:

Week	Topic and Chapters	Assignment
1 (8/26)	Unit 1 - The Veterinary Practice Laboratory 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 (9/2)	Exam #1 – Unit 1 (The Veterinary Practice Lab) Unit 2 - Hematology Chapter 6 - Hematopoiesis Chapter 7 – Sample Collection & Handling Chapter 8 – Automated Analyzers Chapter 9 – Hemoglobin, PCV, & Erythrocyte Indices	Assignment #1
3/(9/9)	Chapter 10 – Evaluating the Blood Smear Chapter 11 – Morphologic Abnormalities of Blood Cells Chapter 12 – Additional Hematologic Tests Chapter 13 – Hematopoietic Disorders & Classification of Anemias	Assignment #2

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Week	Topic and Chapters	Assignment
	Exam #2 – Unit 2 (Hematology)	
4 (9/16)	Unit 3 - Hemostasis Chapter 14 – Principles of Blood Coagulation Chapter 15 – Sample Collection & Handling Chapter 16 – Platelet Evaluation	
5 (9/23)	Unit 3 - Hemostasis Chapter 17 – Coagulation Testing Chapter 18 – Disorders of Hemostasis Exam #3 – Unit 3 (Hemostasis)	Assignment #3
6 (9/30)	Unit 4 – Immunology Chapter 19 – Basic principles Chapter 20 – Common lab tests Chapter 21 – blood groups	
7 (10/7)	Unit 4 – Immunology Chapter 22 – Intradermal testing Chapter 23 – Reference lab immunoassays Chapter 24 – Disorders of the Immune System Exam #4 – Unit 4 (Immunology)	Assignment #4
8 (10/14)	Unit 5 – Urinalysis Chapter 25 – Anatomy & Physiology of the Urinary System Chapter 26 – Sample Collection and Handling Chapter 27 – Physical Examination of Urine	
9 (10/21)	Unit 5 – Urinalysis Chapter 28 – Chemical Evaluation Chapter 29 – Urine Sediment Analysis Exam #5 – Unit 5 (Urinalysis)	Assignment #5
10 (10/28)	Unit 6 – Clinical Chemistry Chapter 30 – Sample Collection & Handling Chapter 31 – Automated Analyzers Chapter 32 – Protein Assays Chapter 33 – Kidney function tests	
11 (11/4)	Unit 6 – Clinical Chemistry Chapter 34 – Pancreatic function tests Chapter 35 – Electrolytes and Acid-Base Chapter 36 – Miscellaneous Tests Exam #6 – Unit 6 (Clinical Chemistry)	Assignment #6
12 (11/11)	Unit 7 – Microbiology Chapter 37 – Intro to Micro Chapter 38 – Equipment and Supplies Chapter 39 – Sample Collection and Handling Chapter 40 – Staining Specimens	
13 (11/18)	Unit 7 – Microbiology Chapter 41 – Culture Techniques	

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Week	Topic and Chapters	Assignment
	Chapter 42 – Antimicrobial sensitivity testing Chapter 43 – Additional testing Chapter 44 - Mycology Thanksgiving Week	
14 (11/25)	Exam #7 – Unit 7 (Microbiology) Unit 9 - Cytology Chapter 51 – Sample Collection and Handling Chapter 52 – Preparation of Cytology Smears	Assignment #7
15 (12/2)	Unit 9 - Cytology Chapter 53 – Microscopic Evaluation Chapter 54 – Cytology of Specific Sites Exam #8 – Unit 8 (Cytology)	Assignment #8
16 (12/9) Due 12/11/2023 by 1159pm CST	Final Exam online (comprehensive)	

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