Please, click on the following link to access A&M-Commerce Covid 19 Information,
https://new.tamuc.edu/coronavirus/

VETT 326 Veterinary Parasitology and Entomology Lab
CRN 25662
COURSE SYLLABUS: Spring 2024

INSTRUCTOR INFORMATION

Instructor:	**Nancy Turner, DVM**
Office:	VBTL 100
Office number:	**903-886-5203**
Office hours:	By appointment via email
E mail:	**Nancy.Turner@tamuc.edu**

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s)
- **Required:**
    - o Veterinary Parasitology: Reference Manual 5th Edition
        - ▪ by William J. Foreyt (Author)
        - ▪ ISBN-13: 978-0813824192

- **Optional:**
    - o Diagnostic Parasitology for Veterinary Technicians 5th Edition
        - ▪ by Charles M. Hendrix DVM PhD (Author), Ed Robinson CVT
        - ▪ ISBN-13: 978-0323389822

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
Lab:
Hands-on laboratory course regarding the study of parasitology principles and procedures commonly utilized in veterinary medicine. This course is also an introduction to laboratory procedures and will

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include microscope care and use, sample collection, basic diagnostic analysis of fecal and other specimens and identification of parasites.

NOTE: This is the laboratory component of VETT 325 and must be taken in conjunction with it for all veterinary technology students but is not required for non-veterinary biomedical technology majors

Student Learning Outcomes

1. Students will demonstrate the ability to understand the hosts, life cycles, pathogenesis, and diseases caused by common parasites that affect most domestic animal species.
2. Students will effectively be able to identify common internal and external parasites (genus and species) that affect domestic animals.
3. Students will recognize common treatments and protocols used to control common parasites of domestic animal species.
4. Students will be able to perform common laboratory diagnostic procedures to examine specimens.
5. Student will be able to properly collect, process and ship specimens to a referral laboratory for analysis.
6. Demonstrate the understanding of how to prepare, handle and submit appropriate samples for diagnostic analysis in order to ensure accuracy of results.
7. 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).

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

1. **Attendance and Participation**
   - You are expected to come to class every day.
   - Excused absences must be discussed with the professor within 24 hours of a missed class, preferably before.
   - You are expected to be prepared for lab and ready to engage constructively with the assignment and classmates to increase learning and retention of the material.

2. **Professionalism**
   - Ethics: If you are caught cheating on anything, this will automatically cut this category in half (and you will receive a zero for that assignment/quiz/exam).
   - Attitude is evaluated each time you communicate with course instructors.
     - Are you sending professional emails?
     - Are you working as a team to resolve conflict and improve processes?
     - Are you looking for resources or answers first before asking for help?
     - Are you contributing in a positive manner to the culture and environment of your
     - workplace?

3. **Assignments/ Lab Reports**
   - **Late homework:** Homework will be due at a specific date and time. Unless discussed in advance, no late work is accepted.

4. **Social Media Parasitology Awareness Campaign: Proposal**
   - You must work in groups of 2 and 2 ONLY
   - Choose a common parasite and you will sign up via google docs
   - Choose the time of year you would launch this campaign
   - You will create ~ 2 months worth of content
   - Must include:
     - 1 Clinic Wide Email/Newsletter
     - 10 Facebook Posts
     - Plans (time, potential speaker, format, rules, moderator, etc) for 1 Facebook or other live social media event
     - 5 short Videos that can be utilized on TikTok or Instagram (note: you will not need to actually post them, but they need to be in the format and time to maximize impact on these platforms)
   - Must cite all sources you borrow content from

5. **Final Exam:**
   - The final exam will be comprehensive/cumulative
   - The final Lab Practical Exam will be comprehensive/cumulative
   - The final exam format may include T/F, matching, multiple choice, and short answer.

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

Attendance and Participation	100
Professionalism	50
Assignments/Case Reports	300
Quizzes/Exams	250
Project	100
Final Lab Practical	100
Other	100
Total	1000

Final grades in this course will be based on the following scale:

A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% or Below

TECHNOLOGY REQUIREMENTS

Browser support

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

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Desktop Support

Browser	Supported Browser Version(s)	Maintenance Browser Version(s)
Microsoft® Edge	Latest	N/A
Microsoft® Internet Explorer®	N/A	11
Mozilla® Firefox®	Latest, ESR	N/A
Google® Chrome™	Latest	N/A
Apple® Safari®	Latest	N/A

Tablet and Mobile Support

Device	Operating System	Browser	Supported Browser Version(s)
Android™	Android 4.4+	Chrome	Latest
Apple	iOS®	Safari, Chrome	The current major version of iOS (the latest minor or **point** release of that major version) and the previous major version of iOS (the latest minor or **point** release of that major version). For example, as of June 7, 2017, D2Lsupports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version. Chrome: Latest version for the iOS browser.
Windows	Windows 10	Edge, Chrome, Firefox	Latest of all browsers, and Firefox ESR.

- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
    - o 512 MB of RAM, 1 GB or more preferred
    - o Broadband connection required courses are heavily video intensive
    - o Video display capable of high-color 16-bit display 1024 x 768 or higher resolution

- You must have a:

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- o Sound card, which is usually integrated into your desktop or laptop computer
- o Speakers or headphones.
- o *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.

- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: JAVA web site http://www.java.com/en/download/manual.jsp

- Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.
>   Pop-ups are allowed.
>   JavaScript is enabled.
>   Cookies are enabled.

- You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
- o Adobe Reader https://get.adobe.com/reader/
- o Adobe Flash Player *(version 17 or later)* https://get.adobe.com/flashplayer/
- o Adobe Shockwave Player   https://get.adobe.com/shockwave/
- o Apple Quick Time   http://www.apple.com/quicktime/download/

- At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

Interaction with Instructor Statement

The instructor's communication response time and feedback on assessments will be as quickly as possible.

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.

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COMMUNICATION AND SUPPORT
Brightspace Support
Need Help?
Student 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, contact Brightspace Technical Support at 1-877-325-7778 or click **Chat** or click on the words "click here" to submit an issue via email. **LiveChat** please on the **Live**

System Maintenance

Please note that on the 4th Sunday of each month there will be System Maintenance which means the system will not be available 12 pm-6 am CST.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Late work will not be accepted.

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: Netiquette http://www.albion.com/netiquette/corerules.html

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

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

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

ADA Statement

Students with Disabilities

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
Gee Library- Room 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

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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.

Course Outline

	Date	Unit		Module	Lab	Assessment
1.	Jan 17-22	**Unit 1: Introduction**		Module 1 Intro	Lab Lecture: ● Intro to Parasitology Lab Techniques Lab Activity: ● microscope and lab safety	● VTNE Pre-Test Handouts: ● Big List of Parasites ● parasite comparison charts
2.	Jan 23-29	**Unit 2: Endoparasites of the Dog & Cat**	Nematodes	Module 2 Roundworms	Lab Quiz ● Quiz 1 Microscope Lab Lecture: ● Fecal float basics Lab Activity: ● Direct & float	Lab Quiz: ● Quiz 1 Microscope
3.	Jan 30-Feb 5			Module 3 Hooks, Threads Whips	Lab Quiz ● Quiz 2 Fecal Dx Lab Lecture: ● Fecalizer Lab Activity: ● Direct & float & fecalizer	Lab Quiz: ● Quiz 2 Fecal Dx
4.	Feb 6-12		Filarioidea	Module 4 Heartworms	Lab Quiz ● Quiz 3 Roundworm ID Lab Lecture: ● Hemoprotozoans Lab Activity: ● Blood smear ● MF/Direct & HWT	Lab Quiz: ● Quiz 3 Ova (nematoes) ID
5.	Feb 13-19	Unit 2: Endoparasites of the Dog & Cat	Filarioidea	Module 4 Heartworms	Lab Quiz ● Quiz 4 Nematode ID Lab Lecture: ● HWP Lab Activity: ● HWP comparison activity	Lab Quiz: ● Quiz 4 Ova ID
6.	Feb 20-26		Platyhelminthes	Module 5 Tapeworms	Lab Quiz ● Quiz 5 HWP Lab Lecture:	Lab Quiz: ● Quiz 5 HWP

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				● Squash Prep Lab Activity: ● Direct & float & fecalizer ● Squash Prep	
7.	Feb 27-Mar 5			Module 6 Flukes	Lab Quiz ● Quiz 6 Cestoda ID Lab Lecture: ● Baermann Sedimentation Lab Activity: ● Direct & float & fecalizer ● Baermann set up	Lab Quiz: ● Quiz 6 Ova ID
8.	Mar 6-12		Midterm 7		Midterm Lab Practical	Lab Practical Exam
9.	March 13-19		SPRING BREAK			
10.	Mar 20-26	**Endoparasites of Large Animals**	Food Animal	Module 8	Lab Quiz ● Quiz 7 SA Ova Review Lab Lecture: ● sugar solution ● McMaster's Technique Lab Activity: ● LA Fecal with McMaster's	Lab Quiz: ● Quiz 7 SA Ova ID
11.	Mar 27-Apr 2		Equine	Module 9	Lab Quiz ● Quiz 8 LA ID Lab Lecture: ● none Lab Activity: ● Equine Fecal with McMaster's	Lab Quiz: ● Quiz 8 FA Ova ID
12.	April 3-9	**Exctoparasites**	Insecta: Fleas, Flies & Lice	Module 10	Lab Quiz ● none Lab Lecture: •Lecture 17: Flies •Lecture 18: LA Flies	Lab Quiz: ● None Exam 2: Large Animal Parasitology
13.	Apr 10-16	**Exctoparasites**	Archanids: Mites & Ticks	Module 10	Lab Quiz ● Quiz 9 Insecta ID Lab Lecture: ● none Lab Activity: ● Large Animal Fecal with McMaster's ● Ectoparasite ID practice	Lab Quiz: ● Quiz 9 Insecta ID

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					Lab Quiz
14.	Apr 17-23	**Protozoa**	Flagellates	Module 11	Lab Quiz ● Quiz 10 ECTO ID Lab Lecture: ● Direct for protozoa ● Giardia SNAP Lab Activity: ● SA Fecal Direct and SNAP ● Large Animal Fecal with McMaster's	Lab Quiz: ● Quiz 10 Ecto ID Exam 3: Ectoparasites
15.	Apr 25-30		Ciliates	Module 11	Lab Quiz ● Quiz 11 Flagellates ID Lab Lecture: ● Ectoparasite ID practice Lab Activity: ● Large Animal Fecal with McMaster's	Lab Quiz: ● Quiz 11 Flagellates ID
16.	May 1-7	**Review**		Module 12	Lab Review	Lab Quiz: ● Quiz 12 Ciliates ID ● Protozoan Take Home Exam
17.	May 8-14	**FINALS**		Module 13	Final Lab Practical and Parasite ID Exam	

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