

McLennan C O M M U N I T Y C O L L E G E

WACO, TEXAS

COURSE SYLLABUS AND INSTRUCTOR PLAN

Clinical Pathology II

VHTL 2331.76

Laurel Shrawder, LVT

NOTE: This is a 16-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

Course Description:

In-depth study of urinalysis and cytology. Survey of microbiological techniques. Emphasis on laboratory procedures. Students will learn proper techniques procedures and principles of performing diagnostic tests for hematology, hemostasis, immunology, urinalysis, clinical chemistries, microbiology, and cytology.

Prerequisites and/or Corequisites:

Successful completion of first years VTHT courses with a grade of C or better. Semester Hours 3 (2 lec/4 lab)

Course Notes and Instructor Recommendations:

This class requires intensive studying of veterinary laboratory procedures, techniques, principles, and results. Students should come to the instructor early if they are having issues performing procedures or understanding the material. This class will move at a very fast pace covering a vast amount of material

Instructor Information:

Instructor Name: Laurel Shrawder, LVT

MCC E-mail: lshrawder@mclennan.edu

Office Phone Number: 254-299-8735

Cell Phone Number: 512-461-2600

Office Location: 126 Veterinary Technology Building

Office/Teacher Conference Hours: Wednesday 8:00AM to 12:00PM; Friday 8:00 to 5:00PM by appointment. Appointments are preferred and Friday by appointment only please.

Other Instruction Information: Email is the best way to contact me. It is essential that you have a fully functioning MCC email account and that you check it often. This is the primary way that I communicate. You need to use your student email address as this is where emails will be sent. My cell phone number is provided and should only be used in important or emergent matters.

*****INSTRUCTOR NOTE:*****

I read my e-mail at least twice a day during the week; however, if you send me an e-mail at 11 PM with a question you need answered before the class tomorrow, I likely will not read it before class. I do not always read e-mails on the weekends. Do not expect instantaneous responses from me via e-mail. Instructors are not 24/7 call centers. Please plan ahead. Remember, poor planning on your part does not constitute an emergency for anyone else.

When you send an e-mail, ALWAYS begin the subject line with VTHT and your course number. If you respond to my e-mail, hit reply, and make sure VTHT (1234.56) is present in the subject line. **Please use complete text in your emails. I do not want to see: u, ur, b4 etc.** Be professional in your communications to your instructors.

Required Text & Materials:

Laboratory Procedures for Veterinary Technicians, Sirois, 7th edition. Elsevier ISBN: 978-0-323-59538-4

Essential Clinical Procedures for Veterinary Technicians, Loy. Bluedoor Publishing ISBN-13: 978-1-68135-748-5

MCC Bookstore Website: <http://www.mclennan.edu/bookstore/>

Methods of Teaching and Learning:

Lectures, laboratory exercises, workbook assignments, exams, laboratory assignments.

Course Objectives and/or Competencies:

1. Students will have an understanding of proper sample collection.
2. Students will be able to perform and analyze a urinalysis sample.
3. Students will perform and understand proper blood chemistry analysis
4. Students will evaluate microbiologic specimens
5. Students will perform various Cytology

Course Outline or Schedule:**Lecture Outline**

Course Lecture Outline			Lab Outline
Week	Required Reading	Chapter	Lab Tasks
		Unit 6: Clinical Chemistry	
1	Pg. 167 - 176	Chapter 30: Sample Collection and Handling Chapter 31: Automated Analyzers	Clean Lab & Introduction to Idexx Laboratory Equipment

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2	Pg. 177 - 190	Chapter 32: Protein Assays and Hepatobiliary Function Tests Chapter 33: Kidney Function Tests	Hands-on with Idexx Laboratory Equipment
3	Pg. 191 - 213	Chapter 34: Pancreatic Function Tests Chapter 35: Electrolytes and Acid-Base Status Chapter 36: Miscellaneous Tests	Hands-on with Idexx Laboratory Equipment
		Exam 1: Unit 6	
		Unit 5: Urinalysis	
4	Pg. 133 - 146	Chapter 25: Anatomy and Physiology of the Urinary System Chapter 26: Sample Collection and Handling	Urine Labs (Sample Collection, Evaluation, Refractometer)
5	Pg. 147 - 153	Chapter 27: Physical Examination Chapter 28: Chemical Evaluation	Urine Labs (Reagent Strip Test, Urine Sediment Analysis)
	Pg. 154 - 170	Chapter 29: Urine Sediment Analysis	Urine Labs (Continue Urine Examinations)
6		Exam 2: Unit 5	
		Unit 7: Microbiology	
7	Pg. 214 - 231	Chapter 37: Introduction to Microbiology Chapter 38: Equipment and Supplies Chapter 39: Sample Collection and Handling	Sample Collection on Agar
8	Pg. 232 - 249	Chapter 40: Staining Specimens Chapter 41: Culture Techniques Chapter 42: Antimicrobial Sensitivity Testing	Gram Stain Lab Sensitivity Testing
9	Pg. 250 - 258	Chapter 43: Additional Testing Chapter 44: Mycology	Dermatophyte Testing
		Exam 3: Unit 7	
		Unit 9: Cytology	
10	Pg. 333 - 356	Chapter 51: Sample Collection and Handling Chapter 52: Preparation of Cytology Smears	Sample Collection (FNA - Pending Patient)

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11	Pg. 357 - 371	Chapter 53: Microscopic Evaluation Chapter 54: Cytology of Specific Sites	Sample Collection (Ear Cytology and Vaginal Cytology)
		Exam 4: Unit 9	
		Unit 8: Parasitology	
12	Pg. 259 - 289	Chapter 45: Nematodes Chapter 46: Cestodes, Trematodes, and Acanthocephalans	Lab Work
13	Pg. 290 - 315	Chapter 47: Protozoa and Rickettsia Chapter 48: Arthropods	Lab Work
14	Pg. 316 - 332	Chapter 49: Sample Collection and Handling Chapter 50: Diagnostic Techniques	No Lab Thanksgiving Week
15	Review	Review Week	Review
16	Finals Week	Clin Path I and II Comprehensive Final	Lab Final

Laboratory Outline

Lab classes will coordinate with the lectures that week. Students will be working on the Essential Skills required for the course as well.

****DISCLAIMER:** This schedule is subject to change throughout the semester. Students will be notified prior to the change.

Course Grading Information:

LECTURE EXAMS. Lecture exams are objective in format, i.e., multiple choice, true/false, matching, fill-in-the-blank and short answer. The exams will be worth 100 points each. There will be 4 exams in this class. The exams may contain questions from the class assignments or quizzes. Any grading errors must be reported to the instructor no later than the end of the week following the exam. The final exam will be worth 200 points and will be **comprehensive over the entire course.**

FINAL EXAM. A comprehensive exam, covering information from the entire course, will be given. This exam will be worth 200 points and administered during finals week. This exam will be objective in format (MC, T/F, etc.).

LABORATORY EXAMS–The final lab exam will be comprehensive over the entire course. Word banks will not be provided for lab exams.

MISSED EXAM: As stated in the Student attendance policy: Students will be permitted to make up class work and assignments missed due to absences caused by (1) authorized participation in official College functions, (2) personal illness, (3) an illness or a death in the immediate family or (4) the observance of a religious holy day. Also, the instructor has the prerogative of determining whether a student may make up work missed due to absences for other reasons. It is the student's responsibility to inform the instructor of the reason for an absence and to do so in a timely fashion. If the student misses an exam he/she will be allowed to make up the missed exam ONLY IF the absence is caused by one of the 4 causes listed above. Personal illnesses will require a doctor's note before you can make up any missed exams or work.

Pay attention to important dates on Brightspace! Example: Circled is the Due date for a Quiz. You can also see when the Quiz starts/becomes available and Ends/closes in Brightspace.



*****INSTRUCTOR NOTE:*****

Do not submit *.pages, *.numbers, or *.key files. These are Apple iWorks files and cannot be opened. If you submit Apple iWorks files and your work cannot be opened by the instructor, you will receive a zero for the assignment.

Do not submit *.odp, *.odt, or *.ods files. These are OpenOffice files and, when opened in Microsoft Office, will lose formatting and document properties. If you submit OpenOffice files and your document loses formatting when opened, you will lose any points associated with the formatting of the document for the assignment.

If you submit *.pdf files, your professor will be limited to how they can markup the document or assist with modifications to the document. PDF files are an acceptable submission format, but may limit the assistance that you can receive if corrections or revisions must be made.

Do not submit assignments in Google Docs, your instructors can always open these submissions and will cause a delay in grading. You will be asked to resubmit the assignment as a Word document.

LABORATORY PARTICIPATION: Attendance and active participation is essential to being successful in this course. These will be graded weekly for a maximum of 10 points per week for a total of 300 points.

GRADE DETERMINATION

Grading	
Items	Points
4 Lecture Exams (100 points each)	400
1 Comprehensive Final	200
Lab Final Exam Grades	200
Quiz Grades (10 Points Each)	100
Laboratory Participation	300
Total Possible Points	1200
Grade Breakdown	
1200 - 1080	A
1079 - 960	B
959 - 840	C
839 - 720	D
719 and Below	F
<u>You must pass this course with a minimum of 900 points (75 average). Failure to achieve a minimum of 900 points (75 average) will result in dismissal from the Veterinary Technology Program.</u>	

The point system is only for illustration purposes in calculating your grade in this course.

NOTE about Essential Skills for Syllabi:

Successful completion of ALL the Essential Skills associated with this course is required by the AVMA/CVTEA for all program veterinary technician students, and as part of eligibility to graduate.

Late Work, Attendance, and Make Up Work Policies:

ATTENDANCE: Attendance at all class lectures and labs is **required and is essential** to your success in this course. Attendance may be taken by, but not limited to, any of the following measures: roll call, quiz, vocabulary word, and/or survey. You must wear closed-toe, non-slip shoes in lab. Scrubs and lab coat are required during lab. **THERE IS A NO FOOD OR DRINK POLICY AT ALL TIMES IN THE LAB.**

NEW TARDY POLICY EFFECTIVE SP 2020

In order to ensure students, arrive on time for class, please note that effective Spring 2020, the classroom instructor will be locking the classroom door **10 minutes** after class begins. If a student arrives late and the door is locked, please know that the student will NOT be allowed in the classroom and will be counted absent for that class period. If a student leaves the classroom during the class (for anything other than an emergency)-such as becoming ill, or specific phone calls-for example a sick child, doctor's office, etc.-they will NOT be allowed to return to the classroom. Personal needs need to be taken care of between classes.

For classes (either lecture or labs), that last more than the approximate 50-minute period, a tardy student may be allowed into that class when the class takes a scheduled break or at the instructor's discretion if scheduled breaks are not practical.

This policy is to help diminish disruption of the class, and to help ensure student safety while in the classroom.

Student Behavioral Expectations or Conduct Policy:

STUDENT UNIFORMS/DRESS CODE:

The type of scrubs and lab coats worn by veterinary technicians in veterinary clinics is required in laboratory classes starting with the first semester in the first year of training. Student's dress and appearance at all times will be expected to reflect the dress worn when the student becomes employed as a veterinary technician. Scrub tops and jeans are acceptable in some courses. If jeans are worn, they must NOT have any holes/tears/rips in them, and be clean. You are required to have at least one set of MCC Veterinary Technology scrubs to wear as directed by your instructors for labs, field trips and special occasions. These are available at the MCC Bookstore. Otherwise, scrubs of various prints and colors may be worn to lecture and laboratory sessions as long as the scrubs are in good condition, fit well, and are clean not wrinkled, and in good taste. Full scrubs, close toed shoes, and full surgical attire must be worn during all surgery laboratories. Coveralls may be worn when working around large animals or appropriate clothing as determined by instructor's class syllabi. Lab coats are required in labs that involved handling blood, fecal material or urine. Lab coats that have the MCC Vet Tech logo are available in the MCC Bookstore. Coveralls are available at most retail clothing stores and are similar to the Dickies brand coveralls. Closed-toe, non-slip shoes, such as boots or tennis shoes, must be worn at all times during all labs and field trips. It is strongly advisable to wear boots when handling large animals to minimize foot injuries.

1. Visible tattoos and body jewelry (other than earrings confined to the ear lobes-1 per year) may be required to be covered up or removed, respectively, when in lecture or laboratory

sessions while at the veterinary technology facility, and AT ALL TIMES during your practicum. Gauged ears require a plug in each while in any/all program classes, field trips or public events.

2. No loose jewelry or loose-fitting clothing (such as bracelets, scarves) are typically allowed in any lab due to safety concerns.
3. Disruptive hair styles are discouraged. Acceptable hair colors fall under the normal range of natural color.

Instructors may have specific requirements, as outlined in the syllabus for the course.

Personal Grooming Guidelines:

1. Professional appearance when in clinical settings.
2. Good personal hygiene is required.
3. All clothing should be clean and free from wrinkles, stains, ragged hems. Hems and pants should be at least ½” from the floor.
4. Hair should be well groomed and pulled out of face and off shoulders in the laboratory courses.
5. Male students should be freshly shaven or have well-groomed beards, mustaches, and sideburns.
6. Fingernails are to be kept at a length and shape consistent with patient and personal safety. NO artificial nails are allowed.
7. The use of safety goggles or other eye protection may be required in the laboratory classes, and the wearing of exam gloves when handling laboratory specimens, including anatomical specimens, blood, urine and feces, is required.

You must wear closed-toe non-slip shoes at all times for lecture and lab. No sandals, flip-flops, Crocs, etc.

Students may wear the following to class: Jeans (clean with no holes, no rips and no tears), Scrub pants, Dress slacks, Scrub top, MCC Vet Tech Polo shirt or polo shirt, or other shirts deemed appropriate.

Preferred dress for all vet tech classes: Scrub top, Scrub pants or jeans

The following is prohibited and will result in being dismissed from class for the day, being marked as absence, and a grade of 0 (F) for the day: Open toed shoes, Shorts, Capri Pants, Leggings, Short skirt or kilt, T- Shirt (MCC shirts may be considered), Spaghetti strap/Cami-style/Tank tops (Allowed under Scrub top), Sleeveless shirt (such as shirt/t-shirt with the arms cut off), Facial Piercings (one 1 earring allowed in each ear-no lip/nose/tongue or other piercings with jewelry), and Any distractive/suggestive clothing, piercing, or body art.

The Veterinary Technician's Oath

"I solemnly dedicate myself to aiding animals and society by providing excellent care and services for animals, by alleviating animal suffering, and promoting public health. I accept my obligations to practice my profession conscientiously and with sensitivity, adhering to the profession's Code of Ethics, and furthering my knowledge and competence through a commitment to lifelong learning."

*** [Click Here for the MCC Academic Integrity Statement](http://www.mclennan.edu/academic-integrity)**

(www.mclennan.edu/academic-integrity)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

*** [Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

(<https://www.mclennan.edu/highlander-guide/policies.html>)

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

**** You will need to access each link separately through your Web browser (for example: Mozilla Firefox, Chrome, Microsoft Edge or Safari) to print each link's information.***



ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu

254-299-8122

Room 319, Student Services Center

Title IX:

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

Go to McLennan's Title IX webpage at www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:

Go to www.mclennan.edu/academic-integrity for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to www.mclennan.edu/student-email.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- [Email Setup for iPhones and iPads](https://support.microsoft.com/en-us/office/set-up-an-outlook-account-in-the-ios-mail-app-b2de2161-cc1d-49ef-9ef9-81acd1c8e234?ui=en-us&rs=en-us&ad=us) (<https://support.microsoft.com/en-us/office/set-up-an-outlook-account-in-the-ios-mail-app-b2de2161-cc1d-49ef-9ef9-81acd1c8e234?ui=en-us&rs=en-us&ad=us>)
- [Email Setup for Androids](https://support.microsoft.com/en-us/office/set-up-email-in-android-email-app-71147974-7aca-491b-978a-ab15e360434c?ui=en-us&rs=en-us&ad=us) (<https://support.microsoft.com/en-us/office/set-up-email-in-android-email-app-71147974-7aca-491b-978a-ab15e360434c?ui=en-us&rs=en-us&ad=us>)

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to [MCC's Tech Support Cheat Sheet](#) or email helpdesk@mclennan.edu.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.