

Updated 07/18/2023



WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

COAGULATION

MLAB 1227 B 201

Alisa J. Petree, MHSM, MLS (ASCP)^{cm}

NOTE: This is an 8-week course.

NOTE: This is a Blended/Hybrid course.

Coagulation
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Course Description:

MLAB 1227 is a course in coagulation theory, procedures, and practical applications. The course describes clinical hemostasis/coagulation by focusing on platelet cell structure and function, thrombocytopoiesis, and the evaluation of stained blood smears. The course also includes areas of study concerning vascular and platelet disorders, defects of plasma clotting factors, fibrinolytic system, thrombosis, anticoagulant therapy and laboratory testing procedures. The course includes laboratory exercises that rely on commonly performed manual and automated methods. The course utilizes a student laboratory for experiences in basic coagulation procedures.

Prerequisites and/or Corequisites:

Prerequisite: Admission to the medical laboratory technician program and approval by the program director. Semester hours . (1 lec/2 lab).

Course Notes and Instructor Recommendations:

Have your textbook by the first day of class. Estimated study time outside of class: 12–14 hours per week. Check your student email daily. Use computer with reliable internet access Please note: It is MCC's policy to assign all students, upon registration, an official e-mail address, which may remain in effect up to twelve months after students are no longer enrolled at MCC. MCC student e-mail addresses will be the only e-mail authorized to communicate official college information or business. A student's failure to receive or read official communications sent to the student's assigned e-mail address in a timely manner does not absolve the student from knowing and complying with the content of the official communication.

Students can sign up for Office 365 Education for Free (includes: Word, Excel, PowerPoint, etc.). Use your valid MCC email address to get started. Here's the link:

[Microsoft Office 365 Education](#)

You may also want to down Adobe Reader

Here's the link to Adobe's website for just the PDF Reader, which will be the free application.

<https://get.adobe.com/reader/?promoid=TTGWL47M>

Please note: Chrome, FireFox, and Edge will all open PDF's to read directly within the web browser if the student does not have any application installed.

CREW: Campus Resources Education Web: 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. All of these are free of charge. A listing of

these and the many other services available to our students is available at
<http://www.mclennan.edu/campus-resource-guide/>

Instructors Information:

Instructor Name: Alisa J. Petree, MHSM, MLS (ASCP) ^{CM}

MCC E-mail: apetree@mclennan.edu

Office Phone Number: 254-299-8406

Office Location: S320, third floor of Science building

Office/Teacher Conference Hours: Monday/Wednesday 11:00 AM-12:00 PM,

Tuesday and Thursday 10:00 AM – 12 PM

Other Instruction Information: Other times available by appointment

Required Text & Materials:

Title: Hematology in Practice

Author: Betty Ciesla

Edition: 3rd edition

Publisher: F.A. Davis

ISBN: 978-0-8036-6824-9

Methods of Teaching and Learning:

The student will describe basic laboratory techniques used in the hematology section; identify principles and procedures of hematology tests to include sources of error and clinical significance of results; and evaluate normal and abnormal erythrocyte morphology and related diseases. The student will evaluate normal and abnormal leukocyte morphology and related diseases; and perform routine hematology tests to include a CBC and peripheral smear evaluation. The student will demonstrate an understanding of hematology; describe disease states associated with abnormal hematology results; and perform basic hematology testing by scoring a grade of **75** or better in the class.

After completion of MLAB 1415 Hematology the student should be able to meet the following general course objectives:

1. Collect, process, and analyze hematology specimens.
2. Recognize and apply principles related to the use of laboratory information systems used in the hematology.
3. Perform analytical tests on body fluids, cells, and other substances tested in the department.

4. Recognize factors that affect methods and test results and take appropriate actions within established guidelines using the skills of critical thinking and problem solving.
5. Recognize the clinical significance of laboratory procedures in the diagnosis and treatment of disease.
6. Perform and monitor routine departmental quality control within established guidelines by applying the principles of critical thinking and problem solving.
7. Perform preventive and corrective maintenance of equipment and instruments and refer to appropriate sources as necessary.
8. Utilize the principles of laboratory safety, including Standard Precautions. Practice all safety protocols prescribed by the college relating to COVID.
9. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public.
10. Recognize the responsibilities of other laboratory and health care personnel and interact appropriately with them for quality patient care.
11. Apply basic scientific principles in learning new techniques and procedures.
12. Relate laboratory test results to common disease processes by recognizing the principles and methodologies practiced in the department.
13. Establish and maintain continuing education as a function of growth and maintenance of personal and professional competence.

Rationale

Medical laboratory technician students must demonstrate entry-level proficiency in the practice of Hematology testing as a fundamental part of the MLT training. This course is designed to aid students academically, mentally and emotionally for the experiences they will encounter in the clinical or workplace setting.

Learning Outcomes

Learning outcomes, or specific course objectives, for the cognitive, affective, and psychomotor domains are listed for each unit and will be available to students on the first day of class via Brightspace.

Course Outline or Schedule:

Learning outcomes, or specific course objectives, for the cognitive, affective, and psychomotor domains are listed for each unit and will be available to students on the first day of class via Brightspace. The class schedule (calendar) will also be available the first day of class.

Course Outline or Schedule:

Class dates will be:

October 13th

- **LU 1** Introduction to Coagulation Chapter 15

October 20th

- **LU 2** Lecture Chapter 16 – Quantitative and Qualitative Platelet Disorders

October 27th

- **LU 3 – Exam 1 Chapter 15 and Chapter 16**
- Lecture Chapter 17 – Defects of Plasma Clotting Factors

November 3rd

- **LU 4** Lecture Chapter 18 – Fibrinogen, Thrombin, and the Fibrinolytic System

November 10th

- **LU 5** Chapter 19 – Introduction to Thrombosis and Anticoagulant Therapy

November 17th

- **LU 6 Exam 2 Chapters 17, 18 and 19**

November 24th - Holiday - No class

December 1st

- **LU 7** Review for the final exam

Final Exam - Please note, this is during Finals week. This is a comprehensive final examination over all the coagulation topics covered to include Chapters not previously tested.

- December 5th - Tuesday

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Subject to Change Disclaimer:

The policies, regulations, procedures, and fees associated with this program are subject to change without prior notice, if necessary, to keep College and program policies in compliance with State and Federal laws and/or with rules related to the program's accrediting agency. The College and the program reserve the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students in any way. The provisions of this document do not constitute a contract, express or implied, between any applicant, student, faculty or staff member and McLennan Community College or this program.

Students should regularly check their student email and the announcements on Brightspace for changes in the class schedule.

Course Grading Information:

Grading Policy

Grade	Percentage Points
A	90-100%
B	80-89%
C	75-79%
D	70-74%
F	69% and below

Final grades are rounded. For example, if you achieve a final score of 79.5%, you will receive a B in the course. If you achieve a 79.4%, you will receive a C.

Any student earning a grade of less than 75% on an assignment/exam is required to schedule a conference time with the Program Director. The conference will be to identify potential solutions aimed at student success.

	Breakdown
Assignments/Labs	40%
Examinations	45%
Final Exam	15%
Total Course Points	100%

Grades will be posted on Brightspace.

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Assignments

Your assignment grade may include work such as quizzes, projects, worksheets, and/or homework. All assignments must be turned in Sunday by midnight or the student will receive a zero for the assignment.

Lab Exercises

Being competent in the laboratory is critical for the MLT. Therefore, it is crucial that each student be present and able to complete his/her lab assignments. Practical lab exams may be given to determine competency. Many lab exercises/assignments may not be available to makeup. All labs must be turned in Sunday by midnight or the student will receive a zero for the lab.

Examinations

There are **two** major examinations which are comprehensive. No make-up exams are given. If you miss an exam, due to an excused absence, the grade you make on the final exam will be the grade also for the missed exam. Students may only have one make-up an exam with a doctor's note or proof of a death in the immediate family. Excused absences require documentation.

ALL tests will be proctored.

Final Exam

The Final Exam will be a comprehensive, testing your knowledge of the material for the entire course.

Late Work, Attendance, and Make Up Work Policies:

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Regular and punctual attendance is expected of all students, and each instructor will maintain a complete record of attendance for the entire length of each course. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades.

Health Professions Division Policy:

Purpose: “McLennan Community College expects regular and punctual class attendance from all students. In Health Professions programs, regular class attendance is expected as a demonstration of professional workplace behavior and late arrival and/or early departure is considered as absenteeism. Students, whether present or absent, are ultimately responsible for all material presented or assigned in the classroom and will be held accountable for these materials in determination of their grade. Absences from didactic classes prevent the Health Professions student from receiving full benefit of the course, diminish the quality of group interaction in the classroom setting and may interrupt progression in the program.

Policy: A McLennan Health Professions student in a didactic course missing a cumulative of 15 percent of the class meetings due to unexcused absences will be dropped.

Students will be permitted to make up class work and assignments missed as outlined in the course syllabus 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, (4) Pregnant or Parenting Protections under Title IX and/or Texas State Education Code Chapter 51, Subchapter Z, Section 51.982 or (5) any excused absences as outlined in College policy B-II. In all other cases, the instructor has the prerogative of determining whether a student may make up work missed.

Students are responsible for any work missed regardless for the cause of absence, as indicated in the institutional attendance policy. The student must initiate conversation with the instructor in a timely fashion, as defined by the program, and complete work according to timelines established with each course instructor.”

In MLAB 1227 there are 7 Friday classes scheduled in the semester. Students missing 1 or more class periods will exceed the allowable absences set by health professions and will be subject to dismissal from the class.

Student Absences on Religious Holy Days - please see MCC catalog regarding absences for religious Holy Days.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity.

Dress Code

The student classroom/laboratory is a level 2 biohazard lab. Therefore, it is recommended that students wear the MLT scrubs and closed toe shoes to class and lab. We are representing our profession and our program. Please see the MLT Student Handbook for more information.

Plagiarism and Cheating

Any reported incidents of plagiarism or cheating will be investigated and documented with proper disciplinary action taken as necessary including possible dismissal from the program. "Cheating" includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests or examinations; (2) dependence upon the aid of sources beyond those authorized by the professor in writing papers, preparing reports, solving problems or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the MCC faculty or staff.

"Plagiarism" includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

Cellular Telephones, Personal Telephone Calls, and Electronic Devices

Students may use laptop computers during lectures as directed by the instructor. Students are NOT to receive or place telephone calls or text messages during class, labs, or clinical hours. Cellular telephones and other electronic devices should be turned off or silenced before entering the classroom, student laboratory, or the clinical site. Inappropriate use of any electronic device may result in disciplinary action.

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

<https://www.mclennan.edu/catalog/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.

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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 2542998122 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 acting Title IX Coordinator at titleix@mclennan.edu or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center 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/>

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email (ast@mclennan.edu) by going to our website (<https://www.mclennan.edu/academic-support-and-tutoring/>).

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 either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing crew@mclennan.edu or a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Both are located in the Completion Center located on the second floor of the Student Services Center (SSC) which is open Monday-Friday from 8 a.m.-5 p.m.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to https://mclennan.co1.qualtrics.com/jfe/form/SV_07byXd7eB8iTqJg. Both the Completion Center and Paulanne's 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. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

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

Go to <https://www.mclennan.edu/center-for-teachingandlearning/FacultyandStaffCommons/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/studentemail.

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](#)
- [Email Setup for Androids](#)

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.