



MLAB 1315.021 – HEMATOLOGY (HYBRID)

Course Syllabus: Spring 2026

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

Instructor: Chantel Sokol

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| Office | Monday | Tuesday | Wednesday | Thursday | Friday | Online |
|--------|-----------|------------|-----------|-------------------------|---------|-----------|
| Hours | 1:30-4:30 | 9:30-11:30 | By appt | 9:30-11:30 1:30-4:30 | By appt | Available |

This syllabus is an agreement between the instructor and the student.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified by the instructor.

Course Description: 3 credit hours.

Lecture/Lab/Clinical: Two hours of online lecture and four hours of lab each week (Tues 1330-1730) The study of blood cells in normal and abnormal conditions. Instruction in the theory and practical application of hematology procedures, including quality control, quality assurance, safety, manual and/or automated methods as well as blood cell maturation sequences, and normal and abnormal morphology and associated diseases.

Prerequisite(s): Admission to MLT program or Department approval

Student Learning Outcomes:

1. Apply principles of safety, quality assurance, and quality control throughout the pre-analytical, analytical, and post-analytical processes in Hematology.
2. Describe the basic components and physiology of human blood.
3. Describe the disease states associated with abnormal hematological tests
4. Identify the laboratory tests required to evaluate blood cell function.
5. Perform basic laboratory hematological tests
6. Evaluate laboratory findings and correlate with clinical conditions

Evaluation/Grading Policy:

A $\geq 90\%$

B $80-89\%$

C $70-79\%$

D $60-69\%$

F $<60\%$

Lecture grade: $4 \text{ exams } 20\% \text{ each}$

Quiz Average 20%

Laboratory grade: $2 \text{ practical exams (midterm and final) } 25\% \text{ each}$

Lab reports/homework average 25% each

Final grade: $75\% \text{ of lecture grade and } 25\% \text{ of laboratory grade}$

Grades will be posted on Blackboard the Monday following due date.

A minimum grade of "C" is required in both the lecture and laboratory components of all Medical Laboratory Technician courses. Failure to meet the minimum passing score in each area will result in a "D" for the course and dismissal from the program.

Required Instructional Materials: Turgeon, M. L. (2026). Clinical hematology: Principles, applications, and molecular concepts. Jones & Bartlett Learning.

Carr, J.H., Clinical Hematology Atlas, Elsevier, 6th Edition, 2021.

Publisher: Jones & Bartlett Learning
Elsevier

ISBN Number: 9781284289176
9780323711920

Optional Instructional Materials: Powerpoints, lectures and additional resource material on Blackboard or via email or Teams

Required Computer Literacy Skills:

Computer

Most Windows or Mac desktop and laptop computers work well for online classes. Chromebooks use the Chrome operating system which is not a supported operating system for Blackboard. Some areas of Blackboard require Java on your computer, and Chromebooks do not support the use of Java. If you use a Chromebook, please be sure you also have access to a Mac computer or Windows computer so you can fully participant in your Blackboard class. Some things will not work on a Chromebook.

Please do not ONLY rely on a tablet, including an iPad, or a smartphone to use Blackboard. Not all features will work on tablets and smartphones. You may need access to a full computer to be able to do everything in your Blackboard class.

You will need to scan documents and upload them to Blackboard. You can use a scanner attached to a computer, a smartphone app, or your cell phone's camera.

Internet Access

While Bb can be accessed with dial-up online service, best results will be obtained when using a broadband Internet service.

Intermediate Internet Skills

You should be familiar with how the Internet works including following links and searching for information.

Intermediate Word Processing Skills

You should be familiar with how to enter data (text) on a word processing document, format text, and save documents.

Java

Make sure your computer is running the current version of java. It is a free download at www.java.com.

Internet Browser

Supported browsers for use with Blackboard include Firefox, Google Chrome, Internet Explorer, and Safari. If you experience any problems in Blackboard we recommend you login to the portal and Blackboard from another browser before seeking assistance from NTCC Technical support.

Course Structure and Overview:

Unit 1: Basic Hematology Principles

Chapters 1-10

Unit 2: Red Blood Cell Disorders

Chapters 11-17

Unit 3: White Blood Cell Disorders

Chapters 18-24

This is a Hybrid class which means class meets once a week and all other instruction is done online via the learning management system BLACKBOARD. In class meetings will be reserved for homework review, labs, and exams. Students are expected to complete all the readings of the required book chapters, review PowerPoints, and complete the online chapter activities. You will see that the course is divided into 17 weeks in the Blackboard portion. Each week you will be expected to complete certain online assignments for the chapters found in that week's folder. This course requires daily computer and internet access. You should expect to spend no less than 9 hours a week in this course. Pay close attention to deadlines for all assignments. Technical difficulties are no excuse for late assignments. A due date assignment schedule is posted in the START HERE folder in Blackboard the entire semester! Please check it weekly so that you know what is due and do not miss anything.

Quizzes: Taken on-line, open book, multiple-choice questions over topics covered in the Lesson's readings and PowerPoint. 12 quizzes averaged together for 20% of lecture grade; grades reflected immediately in Blackboard

Study Guides: Short answer, fill in the blank, and matching over topics covered in the week's readings and PowerPoint. No grade will be taken. These guides may be used during exams.

Homework: MediaLab assignments. Students will be given a MediaLab user name and password. They will complete the learning activity and assessment on MediaLab and submit their certificate of completion on Blackboard. 12 assignments averaged together for 25% of lab grade; if turned in Tuesday will be graded by Wednesday

Exams: Multiple choice questions from study guides and homework taken in class on laptop; each is 20% of Lecture grade; grade reflected immediately in Blackboard. Final exam is cumulative.

Lab Worksheets: completed in-class. 13 labs averaged together for 25% of lab grade; grade posted on Thursday following lab. Your daily lab grade will be calculated as follows: 25% attendance (on-time and present; if not, grade is a zero for this portion regardless if lab is made up), 25% good attitude, and 50% accuracy of results. The accuracy of your results will be graded as follows:

| | |
|----------|-----|
| w/in 20% | 100 |
| w/in 30% | 90 |
| w/in 40% | 80 |
| w/in 50% | 70 |
| w/in 60% | 60 |

| | |
|------------------|----|
| w/in 70% or less | 50 |
|------------------|----|

Communications: EMAIL: csokol@ntcc.edu; E-mails will be responded to within 24 hours during the work week (Monday – Thursday 8am-6pm and Friday 8-noon). Please only send emails from your ntcc account.

TEXT MESSAGE NOTIFICATIONS: Preferred. You are required in this course to sign up for the message notifications via Teams. I will use Teams to get information out to students quickly. This will enable you to receive important class announcements and reminders from me via instant message so that you will not miss out on any assignment changes or important updates. You will be automatically added to the Teams group for this course. Contact the IT Help Desk if you are having trouble with notifications on Teams. Please continue to check your NTCC email daily.

ANNOUNCEMENTS: These can be found in Blackboard under the course link on your Bb homepage. Please make sure you are reading any announcements thoroughly when they are posted there.

Institutional/Course Policy:

Student Responsibilities are to:

1. Attend all labs, be on time, and remain in class for the entire period.
10% will be deducted from your weekly lab grade for late arrivals
If you must leave early, please inform the instructor before class begins.
2. Complete assigned readings before lab. Keep up with course work.
3. Participate in class discussions and lab exercises.
4. You must EARN your grade; I do not GIVE grades, so study, study, study!
Average study time is 2-3 hours per hour of lecture/class time a week.
5. Be courteous to your classmates and instructors.
6. Contact your instructor with any problems or concerns you might have as soon as they arise.
7. **Turn off cell phones or set to vibrate.**

Instructor responsibilities are to:

1. Begin and end class on time.
2. Treat all students courteously, respectfully, and professionally.
3. Present information through lecture, visual aids, and any other appropriate methods.
4. Provide timely and appropriate feedback regarding grades and progress in coursework.
5. Assist students in every way possible.
6. Be available for individual consultation and assistance.

Disruptive Behavior

Disruptive behavior includes any activity that interferes with or creates a negative or dangerous learning environment. This includes talking in side-conversations during lecture and any behaviors disrupting the learning of other students.

Course Content Awareness

Healthcare programs, by their nature, include frank discussion and demonstration of touching anatomical body parts.

Attendance and Absences: Attendance is mandatory. You are expected to attend ALL scheduled labs and take the exams as scheduled. You will be held responsible for all information covered in lab. *If you will be absent, inform the instructor by Teams at least 15 minutes BEFORE class begins. Absences will be counted*

as unexcused if the instructor is not informed in a timely manner. Excessive unexcused absences will result in loss of points from your grade. More than two unexcused absences will result in a reduction of five (5) points being subtracted from your final grade (percentage). More than five unexcused absences will result in the student being dropped from the course. Two unexcused late class attendance equals one unexcused absence. Students with perfect attendance (no absences or tardies) will have five (5) points added to their final exam.

Makeup Policy: Late work will be accepted for quizzes and homework with a 10% late penalty. Assignments will be available on Blackboard each Tuesday and due by the following Tuesday at 1:30pm. Late work will be accepted until Friday at noon. After that date and time, a grade of zero will be entered for any work not completed. The student is responsible for requesting a makeup when they are unable to attend a regularly scheduled examination. Makeup exams and labs will be scheduled only in the event of an EXCUSED absence. All makeup exams and labs will be on the Monday following the absence during office hours. If the test or lab is not made-up, the student will receive a zero for that exam or lab.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:

Absent a clear statement from a course instructor, use of or consultation with generative AI shall be treated analogously to assistance from another person (collusion). Generative AI is a subset of AI that utilizes machine learning models to create new, original content, such as images, text, or music, based on patterns and structures learned from existing data (Cornell, Center for Teaching Innovation). Unauthorized use of generative AI tools to complete an assignment or exam is not permitted. Students should acknowledge the use of generative AI and default to disclosing such assistance when in doubt. Individual course instructors may set their own policies regulating the use of generative AI tools in their courses, including allowing or disallowing some or all uses of such tools. Students who are unsure of policies regarding generative AI tools are encouraged to ask their instructors for clarification. **(Adapted from the Stanford University Office of Community Standards-- accessed August 31, 2023)**

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.