TENTATIVE—SUBJECT TO CHANGE

CLBT 1040 Hematology and Coagulation
COURSE SYLLABUS
Spring Semester 2021 (202114)

COURSE INFORMATION

Credit Hours/Minutes: 5 credit hours/ 6750 minutes
Campus/Class Location: Vidalia Campus, Gillis Building, Room 739
Class Meets: MTW, 8:00 AM – 11:00 AM
Course Reference Number (CRN): 40238

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Rebecca James, B.S., MLS(ASCP) CM
Email Address: rjames@southeasterntech.edu
Preferred method of contact: Email, GroupMe, or Microsoft Teams
Campus/Office Location: Vidalia campus, Gillis Building, Office 716
Office Hours: 7:30-8:00 am; 4:00-5:00 pm
Phone: 912-538-3183
Fax Number: 912-538-3106
Tutoring Hours (if applicable): By appointment

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's Catalog and Handbook (https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf).

REQUIRED TEXT

Clinical Hematology Theory and Procedures, 6th ed., Mary Louise Turgeon and Clinical Hematology Atlas, 5th ed., Bernadette Rodak and Jacqueline Carr ISBN: 978-1-4963-3228-8 and 978-0-323-32249-2

REQUIRED SUPPLIES & SOFTWARE

Pen, pencil, paper, highlighter, Sharpie marker, notebook, computer and internet access, personal lab coat, closed toe shoes, and any other supplies deemed necessary by instructor.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

Course introduces the fundamental formation, function, and degradation of blood cells. Topics include: reticuloendothelial system and blood cell formation, complete blood count and differential, other related blood test, related lab math, correlation of test results to disease states, coagulation and fibrinolysis, instrumentation for hematology and coagulation, critical values and blood cell dycrasias, safety and quality

control, and process improvement.

MAJOR COURSE COMPETENCIES

1. Reticuloendothelial system and blood cell formation
2. Complete blood count and differential
3. Other related blood tests
4. Related lab math
5. Correlation of test results to disease states
6. Coagulation and fibrinolysis
7. Instrumentation for hematology and coagulation
8. Critical values and blood cell dyscrasias
9. Safety and quality control
10. Process Improvement

PREREQUISITE(S)

BIOL 2113, BIOL 2113L, CLBT 1010

COURSE OUTLINE

Reticuloendothelial system and blood cell formation

Order	Description	Learning Domain	Level of Learning
1	Explain hematopoiesis of WBC, RBC, and platelets including developmental stages from embryo to adulthood.	Cognitive	Comprehension
2	Describe normal RBC structure and function.	Cognitive	Comprehension
3	Summarize and identify normal and abnormal Hemoglobin structure and selected hemoglobinopathies.	Cognitive	Comprehension
4	Describe normal WBC structure and function.	Cognitive	Comprehension
5	Recognize blood cell maturation characteristics of WBC,RBC and platelets through related bone marrow developmental stages.	Cognitive	Analysis

Complete blood count and differential

Order	Description	Learning Domain	Level of Learning
1	Perform selected automated and manual blood counts including WBC, RBC, and platelets.	Cognitive	Synthesis
2	Calculate indices.	Cognitive	Application
3	Discuss calculated values for automated cell counts.	Cognitive	Comprehension
4	Calculate corrected white counts.	Cognitive	Application
5	Demonstrate slide preparation and perform staining procedure for differentials.	Psychomotor	Guided Response
6	Perform and evaluate differential cell count and platelet estimate on peripheral blood smears.	Psychomotor	Guided Response
7	Demonstrate ability to recognize RBC morphology including normal and abnormal RBC findings.	Psychomotor	Guided Response
8	Demonstrate ability to recognize WBC morphology including normal and abnormal WBC findings.	Psychomotor	Guided Response
9	Interpret WBC and RBC histograms.	Cognitive	Comprehension

Other related blood tests

Order	Description	Learning Domain	Level of Learning
1	Describe selected special hematological stains and their uses as relates to diagnosis of hematological diseases and disorders.	Cognitive	Comprehension
2	Discuss laboratory tests such as EOS, retics, osmotic fragility, ESR, LE, and sickle cell screening.	Cognitive	Comprehension
3	Perform laboratory tests such as eosinophil counts, reticulocyte counts, osmotic fragility, ESR, and sickle cell screening.	Psychomotor	Guided Response
4	Describe collection technique for bone marrow tissue.	Cognitive	Comprehension

Related lab math

Order	Description	Learning Domain	Level of Learning
1	Analyze related QC math calculations such as mean, median, mode, standard deviation, coefficient of variation.	Cognitive	Analysis
2	Perform related math calculations for manual cell counts.	Cognitive	Synthesis
3	Perform related math calculations for RBC indices (MCV, MCH, MCHC, and RDW).	Cognitive	Synthesis
4	Perform corrected WBC counts, WBC and platelet estimates.	Cognitive	Synthesis
5	Perform calculations using the Rule of 3 (Hgb X 3 = Hct).	Cognitive	Synthesis
6	Calculate international normalized ratio (INR)	Cognitive	Application
7	Calculate absolute versus relative counts.	Cognitive	Application

Correlation of test results to disease states

Order	Description	Learning Domain	Level of Learning
1	Correlate abnormal findings to selected and congenital abnormalities (e.g., anemias).	Cognitive	Analysis
2	Correlate abnormal findings to selected and congenital abnormalities (e.g., leukemias).	Cognitive	Analysis

Coagulation and fibrinolysis

Order	Description	Learning Domain	Level of Learning
1	Discuss hemostasis as it relates to the process of coagulation and fibrinolysis	Cognitive	Comprehension
2	Illustrate and explain intrinsic and extrinsic systems as it relates to the process of coagulation and fibrinolysis.	Cognitive	Comprehension
3	Correlate the stages of coagulation with appropriate testing procedures.	Cognitive	Analysis
4	Perform selected coagulation procedures.	Psychomotor	Guided Response
5	Correlate selected hemostasis disorders and related test procedures including PT, APTT, thrombin time/fibrinogen, and fibrin split products.	Cognitive	Analysis
6	Interpret the function of platelets in relation to coagulation.	Cognitive	Evaluation

Instrumentation for hematology and coagulation

Order	Description	Learning Domain	Level of Learning
1	Identify instrumentation used in specific areas of hematology/ coagulation.	Cognitive	Knowledge

Order	Description	Learning Domain	Level of Learning
2	Describe the operation and maintenance of selected automated cell counters and coagulation analyzers.	Cognitive	Comprehension

Critical values and blood cell dyscrasias

Order	Description	Learning Domain	Level of Learning
1	Describe normal/abnormal/critical values.	Cognitive	Comprehension
2	Identify blood cell dyscrasias.	Cognitive	Knowledge

Safety and quality control

Order	Description	Learning Domain	Level of Learning
1	Set up and perform selected quality control and safety procedures for hematology/coagulation.	Psychomotor	Guided Response
2	Identify possible sources of error in clinical testing.	Cognitive	Comprehension
3	Comply with PPE, bio-hazard, and blood borne pathogen safety rules while practicing labs in the school laboratory.	Affective	Receiving

Process improvement

Order	Description	Learning Domain	Level of Learning
1	Describe the methods used by clinical laboratories to improve performance.	Cognitive	Comprehension

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

A. The ability to utilize standard written English.
B. The ability to solve practical mathematical problems.
C. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

- Students are expected to complete all exams and daily assignments. Students are required to read the chapter prior to class. A 10 point penalty will be assessed for all late assignments. Tests are timed, one hour per test.

- Chapter test average (no lab grades) of 70% or above must be obtained in order to take the final skills lab exam and the comprehensive final exam. (Grade of 69.9 will **NOT** be rounded up.) An average grade of 70% between unit exams, labs, and the final must be obtained in order to advance in the program. If the student fails to meet the unit exam/final exam expectations, the student will receive a W for academic deficiency.

- Students are required to pass all laboratory skills in **THREE** attempts. A student may not progress until skills are mastered.

- If a student shows up late for class on an exam date or is not prepared to start the test on time, the student may not be allowed to take the exam once the faculty has shut the door. The student will have to make up the test and this will be counted as their opportunity for a make-up exam. Students may be provided time to look at their exam score in class and a general discussion may occur; however, due to

time constraints, students are encouraged to schedule an appointment with their instructor to view and get further explanation on the missed concepts.

- No talking is allowed once the exam begins. Once the exam begins, students will not be allowed to exit the classroom until the exam is completed and/or turned into the instructor. Smart watches, cell phones, or any other electronic devices will not allowed during exams. Students found with electronic/communication devices during the exam will be considered cheating; which will result in a zero for the exam.

- No assignment opportunities will be given for extra credit. No scores will be rounded. This rule applies to every grade issued during the semester. All final averages will be recorded as is (ie a 69.9 is a 69.9). No grades will be dropped.

- Points **WILL BE** deducted for spelling due to medical liability in the work place. Laboratory results are legal documents.

- Students are required to wear name badge. Students must wear closed toe shoes, gloves, and lab coat while in the lab.

- Students are responsible for policies, procedures, and all requirements (drug screen, background check, immunizations, Fit test, CPR…) included in the STC e-Catalog/CLT handbook.

- No cell phones will be allowed while instructor is lecturing or in the lab. If you are caught using the cell phone, you will be asked to leave class and receive an "early departure" for the class. (Note: Three (3) tardies or early departures equal one (1) absence for the course. If you are 30 minutes late to class, you will receive an absence for the day.)

COVID-19 MASK REQUIREMENT

Masks or face coverings must be worn at all times while on the campus of Southeastern Technical College. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

COVID-19 Key Symptoms
Fever or felt feverish
Cough: new or worsening, not attributed to another health condition
Shortness of breath, not attributed to another health condition
New loss of taste or smell
Chills; Repeated shaking with chills
Sore throat, not attributed to another health condition
Muscle pain, not attributed to another health condition or exercise
Headache, not attributed to another health condition
Diarrhea (unless due to known cause)
In the past 14 days, if you:
Have had close contact with or are caring for an individual diagnosed with COVD-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

COVID-19 SELF-REPORTING REQUIREMENT

Students, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using the COVID 19 Health Reporting Form https://bit.ly/2Xq4g0f. Report all positive cases of COVID-19 to your instructor and Stephannie Waters, Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

ATTENDANCE GUIDELINES

Requirements for instructional hours within Health Science programs reflect the rules of respective licensure boards and/or accrediting agencies. Therefore, these programs have stringent attendance policies. Each program's attendance policy is published in the program's handbook and/or syllabus which specify the number of allowable absences.

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course a student must attend at least 90% of the scheduled instructional time. All work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time (90%) may be dropped from the course as stated below in the Withdrawal Procedure.

Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before

the end of the scheduled time. Three (3) tardies or early departures equal one (1) absence for the course.

For this class, which meets 3 days a week for 15 weeks, the maximum number of days a student may miss is 5 days during the semester.

Procedures of the program may be reviewed on an individual basis related to extenuating circumstances related to COVID.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: Macy Gay (mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.
Vidalia Campus: Helen Thomas (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Swainsboro Campus: Macy Gay (mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.
Vidalia Campus: Helen Thomas (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery MAY NOT be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. Only instructors can drop students after the 65% point for violating the attendance procedure of the course. Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

Students who are dropped from courses due to attendance after drop/add until the 65% point of the semester will receive a "W" for the course. Students who are dropped from courses due to attendance after the 65% point will receive a WP (Withdrawal Passing) or a WF (Withdrawal Failing). Students will receive a grade of **zero** for all assignments missed beginning with the Last Date of Attendance (LDA) and the date the student exceeds the attendance procedure.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be accessed due to the withdrawal. A grade of 'W' will count in attempted hour calculations for the purpose of Financial Aid.

Remember - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above. You will receive zero's for all assignments until appropriate steps are taken.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)

A student will only be allowed to make-up one unit exam or lab, which will be given at the discretion of the instructor. A physician's excuse/appropriate documentation may be required for the student to be eligible to take a make-up exam. A grade of "0" will be given to all subsequent exams missed, including the final. If a student misses the final exam and has already used their ONE time make-up, the student will NOT be allowed to make-up the final exam; which will result in a zero for the final exam.

Extenuating circumstances are determined at the instructor's discretion. Failure to follow all procedures will result in a grade of zero. Procedures of the program may be reviewed on an individual basis related to extenuating circumstances related to COVID.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. **First Offense**
   Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.
2. **Second Offense**
   Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.
3. **Third Offense**
   Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or

citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	**Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer**
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the Southeastern Technical College (STC) Website (www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State

Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	Percentage
Chapter tests	60%
Lab reports	5%
Laboratory Final	10%
Comprehensive Final Test	25%

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

CLBT 1040 Hematology and Coagulation
Spring Semester 2021 Lesson Plan

***Lessons plans are subject to change**

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Week 1 1/11-1/14	Chapter 4	Chapter 4: Hematopoiesis	Review syllabus Atlas 1-4 Cell linage handouts CBC normal values	1,2,3,7,8,9,10 A,B,C
Week 2 1/18-1/21 ***MLK Day 18th-OFF**	Chapter 5 Chapter 6	Chapter 5: Erythrocytes- Erythropoiesis, Maturation, etc. Chapter 6: Erythrocytes- Hemoglobin	Atlas 1-4	1 A,C
Week 3 1/25-1/28	Chapter 8	Chapter 8: Leukocytes- Granulocytic and Monocytic series	**Test 4,5,6** Atlas 5-9 View Proficiency survey slides	1,2,3,6,7,8,9,10 A,B,C
Week 4 2/1-2/4	Chapter 9 Chapter 10	Chapter 9: Lymphocytes and plasma cells Chapter 10: Basic Lab Assessment	Draw blood- make slides CBC/ Diff staining Eo count/ Absolute value WBC diff count/platelet count & est. HGB & HCT/rule of 3 Correct for NRBC Retic Count MCV calculations WBC, plt. est. and indices View Proficiency survey slides	1,4,7 A,B,C
Week 5 2/8-2/11	Chapter 32	Chapter 32: Manual procedures in Hematology	Bone marrow slides & Plasma cells, malaria slides Student to student diffs	1,2,3,4,6,7,8,9,10 A,B,C

Week 6 2/15-2/18	Chapter 7	Chapter 7: RBC morphology and inclusions	**Test 8,9,10,32** Atlas 10-12 RBC abnormal forms/inclusions Hand out- RBC inclusion& variations malaria slides and video View Proficiency survey slides	1,3,4,7,9 A,B,C
Week 7 2/22-2/25	Chapter 18 Chapter 11	Chapter 18: Nonmalignant Disorders of Grans and Mono's Chapter 11: Classification of Anemias	Count diffs w/ morphology Pelger Huet/SS Howell jolly Promyelocyte slides, compare student to student results Review SS procedure Manuel RBC & WBC hemocytometer	1,2,4,6,7,8,9,10 A,B,C
Week 8 3/1-3/4	Chapter 12 Chapter 13 Chapter 14	Chapter 12: Acute and chronic blood loss anemias Chapter 13: Bone Marrow Failures Syndromes Chapter 14: Disorders of Iron Metabolism and Heme Synthesis	**Test 7,18,11** Atlas 14-20	1,2,3,4,6,7,10 A,B,C
Week 9 3/8-3/11	Chapter 15 Chapter 16 Chapter 17	Chapter 15: Megaloblastic anemias Chapter 16: Hemolytic anemias Chapter 17: Hemoglobinopathies and Thalassemias	Leukemia slides	1,2,4,7 A,B,C
Week 10 3/15-3/18	Chapter 15 Chapter 16 Chapter 17	Chapter 15: Megaloblastic anemias Chapter 16: Hemolytic anemias Chapter 17: Hemoglobinopathies and Thalassemias	Morphology of human blood cells Leukemia power point	1,2,4,7,8,9,10 A,B,C

Week 11 3/22-3/25	Chapter 19 Chapter 20 Chapter 21	Chapter 19: Nonmalignant Lymph disorders Chapter 20: Leukemias and Lymphomas Chapter 21: Acute Leukemias	**Test 12-17** Lab: slides ALL,CLL.AML,CML CMML,AMML Count 10 abnormal slides	1,2,3,4,6,7,10 A,B,C
Week 12 3/29-4/1	Chapter 25 Chapter 27	Chapters 25 & 27: Hemostasis and Thrombosis	PT,PTT,FSP, D-Dimer	1,3,4,5,6,7,8,9,10 A,B,C
Week 13 4/5-4/8 **Spring Break 4/5 and 4/6**	Chapter 26 Chapter 28	Chapters 26 & 28: Disorders of Hemostasis and Thrombosis	Case studies	1,3,4,5,6,7,8,9,10 A,B,C
Week 14 4/12-4/15	Review	Histograms Review QC, SD,CV… Pre-analytical, analytical, and post analytical	**TEST 19, 20, 21, 25, 27,26,28** Review Polanski cards, study stack, Clinical Lab review, Handouts and Atlas TCSG standards due Review Histogram and Coulter operation	1-10 A,B,C
Week 15 4/19-4/22	Review	Review	MOCK final	1-10 A,B,C
Week 16 4/26-4/29	Review	Final	Review	1-10 A,B,C
Week 17 5/3	Final	Final	Lab Final and Comprehensive Final	1-10 A,B,C

COMPETENCY AREAS:

1. Reticuloendothelial system and blood cell formation
2. Complete blood count and differential
3. Other related blood tests
4. Correlation of test results to disease states
5. Coagulation and fibrinolysis
6. Instrumentation for hematology and coagulation
7. Critical values and blood cell dyscrasias
8. Safety and quality control
9. Process improvement
10. Related lab math

GENERAL CORE EDUCATIONAL COMPETENCIES:

a) The ability to utilize standard written English.
b) The ability to solve practical mathematical problems.
c) The ability to read, analyze, and interpret information.