



## **CLBT 2200 Certification Review Fall Semester 2017**

### **COURSE INFORMATION**

Credit Hours/Minutes: 2/3000 minutes

Class Location: 739

Class Meets: M-R

CRN: 20169

### **INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Cynthia Williams, MS, MT (AMT)(HHS)

Office Location: 716

Office Hours: M-W 7:30-8am; 3:30-5pm

Email Address: [cwilliams@southeasterntech.edu](mailto:cwilliams@southeasterntech.edu)

Phone: 912-538-3183

Fax Number: 912-538-3106

### **REQUIRED TEXT**

BOC Study Guide 5th ed. ASCP and Polanski review cards, V. Polanski

### **REQUIRED SUPPLIES & SOFTWARE**

Ink pens, pencil, highlighter, permanent marker, paper, pocket notebook, Polanski review cards and any other supplies deemed necessary by instructor. Lab coats with STC patch and uniforms.

### **COURSE DESCRIPTION**

Provides a review of basic knowledge from previous courses and helps the student prepare for national certification examinations for the medical laboratory technician level. Topics include review of: professional ethics, regulatory agencies, safety, and fundamental techniques; phlebotomy and specimen collection and processing; quality control concepts; computer applications; urinalysis and body fluids; hematology and coagulation; immunology and serology; immunochemistry; clinical chemistry in solutions; microbiology; parasitology, mycology, mycobacteriology, and virology; and test taking skills.

### **MAJOR COURSE COMPETENCIES**

- 1 Professional Ethics, Regulatory Agencies, Lab Safety, Equipment and Techniques
- 2 Phlebotomy, Specimen Collection and Infection Control
- 3 Quality Control Concepts
- 4 Computer Applications
- 5 Urinalysis and Body Fluids
- 6 Hematology and Coagulation
- 7 Immunology and Serology
- 8 Immunochemistry

- 9 Clinical Chemistry and Solutions
- 10 Microbiology
- 11 Parasitology, Mycology, Mycobacteriology, and Virology
- 12 Test-taking Skills and Work ethics

### PREREQUISITE(S)

- CLBT 1030 - Urinalysis/Body Fluids
- CLBT 1040 - Hematology/Coagulation
- CLBT 1050 - Serology/Immunology
- CLBT 1060 - Immunohematology
- CLBT 1070 - Clinical Chemistry
- CLBT 1080 - Microbiology

### COURSE OUTLINE

#### Learning Outcomes

##### Professional Ethics, Regulatory Agencies, Lab Safety, Equipment and Techniques

Order	Description	Learning Domain	Level of Learning
1	Evaluate case studies to determine the professional and ethical solution.	Cognitive	Evaluation
2	Demonstrate professional and ethical behavior in the clinical arena.	Cognitive	Application
3	Discuss certification options and apply for certification exam.	Cognitive	Comprehension
4	Discuss State of Federal Licensure laws, including, but not limited to: CLIA'88, CAP, The Joint Commission, State of Georgia DHR, and Medicare/Medicaid.	Cognitive	Comprehension
5	Demonstrate safety techniques related to storage of chemicals and handling of biohazardous materials.	Cognitive	Application
6	Review proper use of glassware, pipettes, spectrophotometer, balance, centrifuge, serial dilutions	Cognitive	Comprehension
7	<b>Successfully complete a mock registry exam that includes General Lab Skills with a minimum score of 70%.</b>	Cognitive	Application

##### Phlebotomy, Specimen Collection and Infection Control

Order	Description	Learning Domain	Level of Learning
1	Review proper identification techniques, anticoagulants, and common problems associated with venipunctures, skin punctures and solutions.	Cognitive	Comprehension
2	Review specimen collection techniques, handling and processing, including variables affected by improper technique	Cognitive	Comprehension
3	Review safety techniques, infection control procedures, isolation procedures, exposure plan, occupational hazards, and exposure control measures.	Cognitive	Comprehension
4	<b>Successfully complete a mock registry exam in Phlebotomy, Specimen Collection and Infection Control with a minimum score of 70%.</b>	Cognitive	Application

##### Quality Control Concepts

Order	Description	Learning Domain	Level of Learning
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Order	Description	Learning Domain	Level of Learning
1	Review functions of a quality assurance program, evaluating case studies to determine the proper procedures to follow in each event.	Cognitive	Comprehension
2	Review calculations of standard deviations, coefficient of variation, mean, and range.	Cognitive	Comprehension
3	Prepare quality control charts, document QA.	Cognitive	Application
4	<b>Successfully complete a mock registry exam in Quality Control concepts with a minimum score of 70%.</b>	Cognitive	Application

### Computer Applications

Order	Description	Learning Domain	Level of Learning
1	Review importance of proper data collection and input.	Cognitive	Comprehension
2	Discuss computerized patient routing.	Cognitive	Comprehension

### Urinalysis and Body Fluids

Order	Description	Learning Domain	Level of Learning
1	Review fundamental theory of urinalysis/body fluids	Cognitive	Comprehension
2	Review anatomy of body systems associated with urinalysis and body fluids.	Cognitive	Comprehension
3	Review procedure for Urinalysis Dipstick and Microscopic exam.	Cognitive	Comprehension
4	Review correct method of reporting urinalysis/body fluids results.	Cognitive	Comprehension
5	Correlate urinalysis and body fluid test results with appropriate disease states.	Cognitive	Analysis
6	<b>Successfully complete a mock registry exam on topics relating to urinalysis and body fluid testing and disease correlations with a minimum score of 70%.</b>	Cognitive	Application

### Hematology and Coagulation

Order	Description	Learning Domain	Level of Learning
1	Review RE System and apply this knowledge to hematology testing procedures.	Cognitive	Comprehension
2	Review procedure, and interpretation of CBC and Differential, cell counts, morphology and estimation of indices	Cognitive	Comprehension
3	Correlate hematology results to disease states.	Cognitive	Analysis
4	Correlate special testing to disease states, including, but not limited to: sickle cell test, sed rate, reticulocytes, spherocytes, abnormal hemoglobins, bone marrows, leukemias, and anemias.	Cognitive	Analysis
5	Review critical levels and blood cell dyscrasias.	Cognitive	Comprehension
6	Review hematology instrumentation and troubleshooting techniques.	Cognitive	Comprehension
7	Review coagulation cascade and factor categories and function.	Cognitive	Comprehension
8	Review platelets structure and function.	Cognitive	Comprehension
9	Review test procedures and applications.	Cognitive	Comprehension
10	Correlate disease states with coagulation results.	Cognitive	Analysis
11	Review instrumentation related to coagulation/fibrinolysis studies.	Cognitive	Comprehension
12	<b>Successfully complete a mock registry exam including these topics with a minimum score of 70%.</b>	Cognitive	Analysis

## Immunology and Serology

Order	Description	Learning Domain	Level of Learning
1	Review parts of the immune system and their functions.	Cognitive	Comprehension
2	Review complement cascade and the function of this system.	Cognitive	Comprehension
3	Review structure and function of antigen-antibody reactions and their application in serological testing	Cognitive	Comprehension
4	Review clinical significance of disease states related to immunity, including, but not limited to: syphilis, immune deficiency, viruses, inflammation, allergies, autoimmune problems and lymphoproliferative disease.	Cognitive	Comprehension
5	Review common techniques, including, but not limited to: agglutination, precipitation, immunoassays, tumor markers, flocculation, electrophoresis and molecular diagnostic technology.	Cognitive	Comprehension
6	Review result and normal value recording and reporting.	Cognitive	Comprehension
7	Review proper specimen collection and handling techniques.	Cognitive	Comprehension
8	Review confirmatory tests.	Cognitive	Comprehension
9	Review sources of error in serological testing.	Cognitive	Comprehension
10	<b>Successfully complete a mock registry exam related to immunology and serology topics with a minimum score of 70%.</b>	Cognitive	Comprehension

## Immunoematology

Order	Description	Learning Domain	Level of Learning
1	Review genetic reasons for blood type inheritance, hemolytic disease of the newborn and inheritance of antibodies	Cognitive	Comprehension
2	Review proper procedure of donor unit selection for compatibility testing.	Cognitive	Comprehension
3	Review proper donor unit selection in unusual circumstances: emergency, surgery, coagulation abnormalities, and pediatrics/elderly.	Cognitive	Comprehension
4	Review proper techniques for collection of donor units, donor selection, and treatment for donor reactions.	Cognitive	Comprehension
5	Review procedures and interpretation of all pretransfusion tests.	Cognitive	Comprehension
6	Review sources of error in the procedures and interpretation of pretransfusion testing.	Cognitive	Comprehension
7	Review importance and procedure of quality control in pretransfusion testing.	Cognitive	Comprehension
8	Discuss case studies related to interpretation and troubleshooting problems in pre-transfusion testing.	Cognitive	Comprehension
9	Review use of transfusion products to manage disease states, including, but not limited to: packed red cells, specially treated packed red cells, cryoprecipitate, fresh frozen plasma, coagulation factors, RhoGam, platelets, and special set-ups.	Cognitive	Comprehension
10	Review symptoms of transfusion reactions.	Cognitive	Comprehension
11	Review the transfusion reaction investigation procedures.	Cognitive	Comprehension
12	<b>Successfully complete a mock registry exam on topics related to Immunoematology with a minimum score of 70%.</b>	Cognitive	Comprehension

## Clinical Chemistry and Solutions

Order	Description	Learning Domain	Level of Learning
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Order	Description	Learning Domain	Level of Learning
1	Review test methods, procedures, normal values, interpretation, interference, and correlation to disease states in reference to carbohydrates, electrolytes and acid-base balance.	Cognitive	Comprehension
2	Review test methods, procedures, normal values, interpretation, interference, and correlation to disease states in reference to nitrogenous compounds	Cognitive	Comprehension
3	Review test methods, procedures, normal values, interpretation, interference, and correlation to disease states in reference to enzymes and endocrinology.	Cognitive	Comprehension
4	Review test methods, procedures, normal values, interpretation, interference, and correlation to disease states in reference to liver functions and lipids	Cognitive	Comprehension
5	Review test methods, procedures, normal values, interpretation, interference, and correlation to disease states in reference to toxicology and drug monitoring.	Cognitive	Comprehension
6	Review timing and specimen selection of specimen collection and correlation to proper test results.	Cognitive	Comprehension
7	Review body systems and related testing profiles.	Cognitive	Comprehension
8	<b>Successfully complete a mock registry exam including these topics with a minimum score of 70%.</b>	Cognitive	Application

### Microbiology

Order	Description	Learning Domain	Level of Learning
1	Review specimen handling, proper media selection, inoculation techniques, smear techniques, stains, microscopics, atmosphere conditions and temperature regulation.	Cognitive	Comprehension
2	Review safety procedures and infection control measures.	Cognitive	Comprehension
3	Review sources of specimens and correlation to testing techniques, sterile technique, enhancement of growth conditions for identification of organisms	Cognitive	Comprehension
4	Review various pathogenic organisms, appearance on media, biochemical testing, and identification techniques.	Cognitive	Comprehension
5	Correlate presence of bacteria to disease states, critical values and normal flora.	Cognitive	Analysis
6	Review use of anti-microbial sensitivities in determining procedures and identifications of resistant, and sensitive organisms	Cognitive	Comprehension
7	Review multi-drug-resistant organisms and infection control techniques.	Cognitive	Comprehension
8	<b>Successfully complete a mock registry exam on these topics with a minimum score of 70%.</b>	Cognitive	Application

### Parasitology, Mycology, Mycobacteriology, and Virology

Order	Description	Learning Domain	Level of Learning
1	Review proper specimen collection and handling for these special tests	Cognitive	Comprehension
2	Review testing procedures to identify these types of pathogenic	Cognitive	Comprehension

Order	Description	Learning Domain	Level of Learning
	organisms.		
3	Correlate these organisms with disease states and critical values.	Cognitive	Analysis
4	Review special infection control techniques associated with mycology, mycobacteriology and virology.	Cognitive	Comprehension
5	<b>Successfully complete a mock registry exam including these topics with a minimum score of 70%.</b>	Cognitive	Application

### Test-taking Skills and Work Ethics

Order	Description	Learning Domain	Level of Learning
1	Review special topics: study skills, rest, relaxation techniques, arriving on time and feeling confident	Cognitive	Comprehension
2	Review multiple choice test taking skills: elimination, guessing, changing answers, and practice.	Cognitive	Comprehension
3	Review Work Ethics	Cognitive	Comprehension
4	<b>Successfully complete a comprehensive mock registry exam with a minimum score of 70%.</b>	Cognitive	Application

### GENERAL EDUCATION CORE COMPETENCIES

STC 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 required to wear name badges. Students must pass a pre-test before attending clinical rotation. Students are required to record clinical hours each day and be signed by the clinical preceptor. Each week this time sheet will be faxed to the program director. Caution: falsification of time sheets or preceptor signatures will result in expulsion from the CLBT program! Students are expected to complete all clinical hours and assignments by the due dates. A ten point penalty will be assessed for each day a case study or study questions are late. Case studies and study questions will not be accepted after end of course date. Students are responsible for policies and procedures included in the STC Catalog/CLT handbook. Students are responsible for requirements (drug screen, background check, immunizations, Fit test, CPR...) included in the STC Catalog/CLT handbook. No cell phones allowed. Read the infraction section of CLT Handbook. Stay busy during clinical rotation! Learn work flow, instrument operation, QC, and maintenance. If you have any down time- study the Polanski cards! Preceptors are watching you for prospective job opportunities. Take the initiative to draw patients, put up stock, answer phones, and load the instruments

### ATTENDANCE GUIDELINES

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 also 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 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. For this class, which meets 5 days a week for 3 weeks, the maximum number of days a student may miss is 2 days during the semester. All hours must be completed.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

**TRADITIONAL ATTENDANCE ADDENDUM:** For each clinical rotation, which meets 5 days a week for 4 weeks (PHLEBOTOMY/ URINALYSIS/SEROLOGY is 3 weeks), the maximum number of days a student may miss is 2 days during EACH clinical rotation. All minutes MUST be made up before the end of the semester! Fall semester will consist of 3 weeks of Phlebotomy, Urinalysis, and Serology clinical followed by 4 weeks of Chemistry rotation, and 4 weeks of Hematology. CLBT Certification Review course will be the last two weeks of the fall semester from 8am to 4:00 pm. This course meets for 8 days. Only one day absence is allowed in the Certification Review course. Each day will be dedicated to review of a subject, test given, and graded for the course. Any test missed must be made up. The Mock Registry will be given the last day of the 15 week fall semester. Students must pass the Mock registry with a 70 or higher in three attempts to complete the CLT program.

If the student must be absent, the student must call the clinical site preceptor by 7 am and email the Program Director (Ms. Williams) by 8am. Daily attendance and punctuality are of the utmost importance for the successful completion of each rotation. The student is expected to arrive and begin work promptly and to stay until the scheduled rotation is complete. Every day at the clinical site is important. This course requires 6750 minutes of clinical participation (3 weeks at 5 days per week) in addition to skills check list by the preceptor, case study and study questions.

Students who miss more than 2 days for each clinical rotation will be required to bring a doctor's excuse before makeup time will be allowed.

### **SPECIAL NEEDS**

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

### **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 advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

## WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (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" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

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 assessed due to the withdrawal. All grades, including grades 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.

## MAKEUP GUIDELINES

Clinical time missed will be made up at the discretion of the clinical preceptor/ instructor. Case studies and study questions are due on the dates posted on the syllabus. Late assignments will have 10 points deducted for each day late. After end date for the semester, assignments will receive a zero.

## ACADEMIC DISHONESTY POLICY

The STC Academic Dishonesty Policy states 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 STC Catalog and Student 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" 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 a 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 and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, 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 school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

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

<b>ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer</b>	<b>Title VI - Title IX (Employees) - EEOC Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

## GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on STC'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 [STC website](#).

## 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

<b>Assessment/Assignment</b>	<b>Percentage</b>
MOCK registry	50%
Work ethics	5%
All tests averaged	45%

## GRADING SCALE

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

## **GRADING POLICY**

A clinical grade of 70 or above is required to pass clinical rotations (grades of 69.9 will not be rounded up). **NO GRADES WILL BE DROPPED.** You must receive a “C” or higher in all CLBT, core, and clinical courses to progress in the CLT program.

## **EXIT EXAM**

This course includes an exit exam. The MOCK registry is the exam for this course. You must make a 70 or higher to successfully pass the CLT program as required by TCSG standards.

## **WORK ETHICS**

The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this class.

## CLBT 2200 Certification Review Practicum

### Fall Semester 2017 Lesson Plan

CLBT 2090 Phlebotomy/Serology/Urinalysis (weeks 1-3)

CLBT 2130 Clinical Chemistry (weeks 4-7)

CLBT 2110 Hematology and Coagulation (weeks 8-11)

CLBT 2200 Certification Review (weeks 14-16)

Lesson Plan is subject to change at the discretion of the instructor.

WEEK	CONTENT	TESTS ASSIGNMENTS	COMP AREA
1 August 14-18	Clinical 2090 Phlebotomy/ UA/Serology	<b>Case study</b> <b>Study questions</b> <b>Polanski review cards</b> <b>Fax time sheet 912-538-3106 Att: Cindy Williams</b>	Phlebotomy / UA/Sero Course 1-6 Core A,B,C
2 August 21-25	Clinical 2090 Phlebotomy/ UA/Serology	<b>Case study</b> <b>Study questions</b> <b>Polanski review cards</b> <b>Fax time sheet 912-538-3106 Att: Cindy Williams</b>	Phlebotomy / UA/Sero Course 1-6 Core A,B,C
3 August 28- Sept. 1	Clinical 2090 Phlebotomy/ UA/Serology  <b>Total: 120 hours</b>	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Phlebotomy / UA/Sero Course 1-6 Core A,B,C
4 Sept. 4 Labor Day Sept.5- 8	2130 Clinical Chemistry	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Chemistry Course 1-9 Core A,B,C
5 Sept. 11-15	2130 Clinical Chemistry	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Chemistry Course 1-9 Core A,B,C
6 Sept. 18-22	2130 Clinical Chemistry	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy	Chemistry Course 1-9 Core

		Williams	A,B,C
7 Sept. 25-29	2130 Clinical Chemistry <b>Total: 160 hours</b>	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Chemistry Course 1-9 Core A,B,C
8 Oct. 2-6	2110 Clinical Hematology/Coagulation	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
9 Oct. 9-13	2110 Clinical Hematology/Coagulation	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
10 Oct. 16-20	2110 Clinical Hematology/Coagulation	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
11 Oct. 23-27	2110 Clinical Hematology/Coagulation <b>Total: Hours 160</b>	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
12 Oct. 30 Nov. 3	Weeks 12 & 13 are for completion of clinical hours if needed. Complete case studies and all study questions. Make sure all evaluations are complete.	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
13 Nov. 6-10	Weeks 12 & 13 are for completion of clinical hours if needed. Complete case studies and all study questions. Make sure all evaluations are complete.	Case study Study questions Polanski review cards Fax time sheet 912-538-3106 Att: Cindy Williams	Hematology Course 1-8 Core A-C
14 Nov. 13-17	Certification Review at STC Monday- Thursday! 8-4pm	Monday- PhI/UA/Sero review; TEST Tuesday-Chemistry review; TEST Wednesday-Microbiology review concentrate bacteria; Thursday- Microbiology Review cont. concentrate virus, fungi, and parasites; TEST Work ethics exam.	Review Course 1-12 Core A-C

		Serology/Chemistry/Hematology or coagulation case studies are due and will be presented to the class. All study questions due. All clinical site evaluations due. All "number of test" per clinical site rotation due.	
15 Nov. 20-24	Certification Review at STC Monday and Tuesday 8-4pm	Monday- Hematology Review; TEST Tuesday- Blood bank Review; TEST	Review Course 1-12 Core A-C
16 Nov. 27-30	Certification Review at STC Monday- Tuesday 8-4pm	Monday- Serology/Chemistry/Hematology or coagulation case studies are due and will be presented to the class. Review any weak areas; Test taking skills; AMT MOCK MT TEST Tuesday- <b>MOCK REGISTRY- you must pass this MOCK registry in 3 attempts with a 70 or higher and the course with a 70 or higher to pass the entire CLT program. All test grades week 14- 16 must be passed with a 70 or above per TSCG standards.</b> All test grades week 14-16 are averaged and is 45% of your grade. Work ethics is 5% MOCK registry is 50% of your grade for this course.	Review Course 1-12 Core A-C

### COMPETENCY AREAS

- 1 Professional Ethics, Regulatory Agencies, Lab Safety, Equipment and Techniques
- 2 Phlebotomy, Specimen Collection and Infection Control
- 3 Quality Control Concepts
- 4 Computer Applications
- 5 Urinalysis and Body Fluids
- 6 Hematology and Coagulation
- 7 Immunology and Serology
- 8 Immunochemistry
- 9 Clinical Chemistry and Solutions
- 10 Microbiology
- 11 Parasitology, Mycology, Mycobacteriology, and Virology
- 12 Test-taking Skills and Work ethics

### 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.