



TENTATIVE—SUBJECT TO CHANGE

**CLBT 1080 Microbiology
COURSE SYLLABUS
Summer Semester 2021 (202116)**

COURSE INFORMATION

Credit Hours/Minutes: 5/7500

Campus/Class Location: Vidalia Campus, Gillis Building, Room 739

Class Meets: Monday-Thursday, 8:00 AM-12:10 PM

Course Reference Number (CRN): 60068

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: 4:00-6:00 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) (<https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf>).

REQUIRED TEXT

Textbook of Diagnostic Microbiology; 6th ed. by Connie R. Mahon and Donald C. Lehman ISBN: 978-0-323-61317-0

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

Introduces fundamental microbiology and parasitology theory and techniques applicable to disease state identification. Topics include: microbiology fundamentals; basic techniques; clinical microbiology; related lab math; anti-microbial sensitivity; safety and quality control; parasitology; mycology, mycobacteriology, and virology; correlation of disease states; and process improvement.

MAJOR COURSE COMPETENCIES

1. Microbiology Fundamentals
2. Basic techniques
3. Clinical Microbiology
4. Proper usage of microscope
5. Anti-Microbial Sensitivity
6. Safety and quality control
7. Parasitology
8. Mycology, Mycobacteriology, and Virology
9. Correlation of Disease States
10. Quality Improvement

PREREQUISITE(S)

All Required.

COURSE OUTLINE

MICROBIOLOGY FUNDAMENTALS

Order	Description	Learning Domain	Level of Learning
1	Discuss basic concepts of microbial classification, growth, reproduction, and metabolism.	Cognitive	Comprehension
2	Compare and contrast eukaryotes and prokaryotes.	Cognitive	Synthesis
3	Discuss infection and disease processes.	Cognitive	Comprehension
4	Describe media composition and their uses within the clinical microbiology laboratory.	Cognitive	Comprehension

BASIC TECHNIQUES

Order	Description	Learning Domain	Level of Learning
1	Describe selected media composition and uses.	Cognitive	Comprehension
2	Describe essential collection, transport, and handling procedures.	Cognitive	Comprehension
3	Determine appropriate media for use in isolating pathogenic microorganisms.	Cognitive	Application
4	Perform selected microbiological specimen setups.	Psychomotor	Guided Response
5	Perform and read gram stains of clinical specimens and bacterial isolates.	Psychomotor	Guided Response
6	Describe the use of bio and molecular technology to include differentiating DNA, nucleic acid probes, and amplification methods in taxonomy and clinical microbiology.	Cognitive	Comprehension

CLINICAL MICROBIOLOGY

Order	Description	Learning Domain	Level of Learning
1	Discuss culture characteristics and isolation techniques of selected gram positive and gram negative cocci.	Cognitive	Comprehension
2	Perform confirmatory tests for identifying clinically significant cocci including Staphylococcus, Streptococcus, and Neisseria.	Psychomotor	Guided Response
3	Relate pathogens to disease state.	Cognitive	Analysis
4	Discuss culture characteristics of selected clinically significant gram negative bacilli.	Cognitive	Comprehension
5	Discuss biochemical reactions used in identifying gram negative bacilli including enterics/fermenters, Haemophilus, and nonfermenters.	Cognitive	Comprehension
6	Perform selected confirmatory tests for identifying clinically significant gram negative bacilli.	Psychomotor	Guided Response
7	Discern pathogens from normal/ transient flora at selected body sites.	Cognitive	Analysis
8	Relate medically important pathogens to disease state.	Cognitive	Analysis
9	Describe basic identification procedures of selected species including spore formers, nonspore formers, and anaerobes.	Cognitive	Comprehension
10	Describe anaerobe collection, transport, and processing.	Cognitive	Comprehension
11	Relate pathogens to disease state.	Cognitive	Analysis
12	Discuss and perform sub culture techniques used in isolation and identification of medically important microorganisms.	Cognitive	Comprehension

PROPER USAGE OF THE MICROSCOPE

Order	Description	Learning Domain	Level of Learning
1	Demonstrate proper usage of the microscope.	Psychomotor	Guided Response
2	Evaluate and interpret identification of microbial specimens through proper microscopy technique.	Cognitive	Analysis

ANTI-MICROBIAL SENSITIVITY

Order	Description	Learning Domain	Level of Learning
1	Describe methods of anti-microbial susceptibility testing including minimal inhibitory concentration (MIC) and Kirby-Bauer.	Cognitive	Comprehension
2	Perform and interpret Kirby-Bauer and MIC sensitivities.	Psychomotor	Guided Response

SAFETY AND QUALITY CONTROL

Order	Description	Learning Domain	Level of Learning
1	Describe and adhere to safety and quality control measures associated with handling clinical specimens and disease	Cognitive	Comprehension

Order	Description	Learning Domain	Level of Learning
	producing organisms.		
2	Demonstrate appropriate safety techniques and universal precautions.	Psychomotor	Guided Response
3	Discuss and perform quality control of selected media and reagents.	Cognitive	Comprehension

PARASITOLOGY

Order	Description	Learning Domain	Level of Learning
1	Recall the scientific and common names of selected parasites including protozoa, ciliates, nematodes, trematodes, malaria, and cestodes.	Cognitive	Knowledge
2	State parasitic forms which cause diseases.	Cognitive	Knowledge
3	Perform standard identification procedures.	Psychomotor	Guided Response
4	Recognize the diagnostic stage of selected parasites.	Cognitive	Analysis
5	Relate pathogens to disease state.	Cognitive	Analysis
6	Determine specimen collection, transport, and processing for commonly encountered parasites.	Cognitive	Application

MYCOLOGY, MYCOBACTERIOLOGY, AND VIROLOGY

Order	Description	Learning Domain	Level of Learning
1	Describe special media, processing techniques, and identification procedures for fungi, mycobacteria, and viruses.	Cognitive	Comprehension
2	Recognize selected mycology isolates.	Cognitive	Analysis
3	Perform and/or read acid fast bacilli (AFB) smears.	Psychomotor	Guided Response
4	Discuss basic viral structure and reproduction.	Cognitive	Comprehension
5	Relate commonly encountered pathogens to disease state.	Cognitive	Analysis

CORRELATION OF DISEASE STATES

Order	Description	Learning Domain	Level of Learning
1	Evaluate laboratory data to determine causative agent, antimicrobial resistance, and source of specimen to correlate with disease states.	Cognitive	Evaluation

QUALITY IMPROVEMENT

Order	Description	Learning Domain	Level of Learning
1	Summarize methods used to improve performance in the microbiology laboratory, including importance of the infection control functions of this department.	Cognitive	Comprehension
2	Describe and recognize the role of the clinical laboratory microbiologist in providing accurate test results through	Cognitive	Cognitive

Order	Description	Learning Domain	Level of Learning
	preanalytical, analytical, and post analytical phases of testing.		

GENERAL EDUCATION CORE COMPETENCIES

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

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. 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 **will** be timed.
- Chapter test average (no lab grades) of 70% or above must be obtained in order to take 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 **TWO** attempts. A student may not progress until skills are mastered.
- Student must receive a **100%** on organism ID due to the critical nature of this course.
- 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 the one 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 or 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, solid color uniform, closed toe shoes, and lab coat with the CLT STC patch.
- Students are expected to exhibit professional behavior at all times. You represent Southeastern Technical College AND the Clinical Laboratory Technology program. Each student must show respect and concern for fellow students and for the course instructor. Insubordination will not be tolerated, and disciplinary measures will be enforced.
- The student must utilize all time in the lab. Talking with peers is not permitted in the clinical area unless permission is given by the instructor. Idle time is prohibited. If a student does not utilize lab time for skills development, a minimum of 1 point will be deducted each day from the final course grade for professional development infractions.
- 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 COVID-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](https://bit.ly/2Xq4g0f). Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](mailto:swaters@southeasterntech.edu), 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 4 days a week for 9 weeks, the maximum number of days a student may miss is 4 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.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto: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.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto: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 assessed 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.)

- Students are allowed to make up only one missed exam excluding the final examination. This is only if they have an excused absence approved by the instructor. The makeup exam may be given in a different format than the original exam. A doctor’s excuse and/or additional documentation will be requested. **Ten points will be deducted** from the test for taking the test late. All other missed exams will result in a grade of zero.
- **No labs will be made up.** If you miss a lab, you will receive a zero for the lab.
- If you enter the classroom late, you will not be allowed to take the exam, and you will be issued a grade of zero for the exam. PLEASE be on time! If I beat you to class, you are counted tardy.
- Failure to complete any homework assignments will result in one point being deducted from the final course grade for each assignment not completed by the deadline specified. Late or incomplete assignments will still need to be completed and turned in for instructor review and feedback. If you are going to be absent, you should deliver your assignment to your instructor prior to the deadline to ensure credit.
- 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/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 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st 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 \(www.southeasterntech.edu\)](http://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%
Microbe Test	10%
Labs	5%
Comprehensive Final	25%
Unknown ID	PASS/FAIL

GRADING SCALE

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

CLBT 1080 Microbiology Summer Semester 2021 Lesson Plan

*Lesson plans are subject to change at the discretion of the instructor.

Date/week	Chapter	Content	Assignments & Tests Due Date	Competency Area
Week 1 5/17-5/20	1-8	Syllabi review Chapter 1: Bacterial Cell structure, Physiology, Metabolism and Genetics Chapter 2: Host-Parasite Interaction Chapter 3: Laboratory Role in infection Control Chapter 4: Control of Microorganisms Chapter 5: Performance Improvement in the Microbiology Lab Chapter 6: Specimen Collection and Processing Chapter 7: Microscopic Examination of Infected Materials Chapter 8: Use of Colony Morphology for the presumptive identification of Microorganisms	Specimen plate and hold chart Gram stain Doc Gram Pos Flowchart Gram Neg Flowchart	Course 1,3,3,6 Core A,B,C
Week 2 5/24-5/27	14&15	Chapter 14: Staphylococci Chapter 15: Streptococcus, Enterococcus and other catalase negative gram positive cocci	Test 1-8 <i>Gram stain</i> Media Streak out quality control stock cultures Review microbe card for each organism <i>Catalase and coagulase</i> <i>Strep Identification (ID)</i>	Course 1,2,3,9 Core A,B,C
Week 3 5/31-6/3 Holiday 5/31	16	Chapter 16: Aerobic gram positive bacilli	<i>Hemolysis skills</i> <i>assessment</i>	Course 1,2,3,9 Core A,B,C
Week 4 6/7-6/10	17&18	Chapter 17: Neisseria/Moraxella Chapter 18: Haemophilus and other gram negative bacilli	Test 14,15,16 <i>Oxidase</i>	Course 1,2,3,9 Core A-C
Week 5 6/14-6/17	9&19	Chapter 9: Biochemical Identification of gram negative bacteria (GNB) Chapter 19: Enterobacteriaceae	<i>Remel ERIC Biochemical ID</i> Microscan video ID organism lab; ESBL, CRE	Course 1,2,3,9 Core A-C
Week 6 6/21-6/24	20	Chapter 20: Vibrio, Aeromonas, Plesiomonas and Campylobacter	Test 17,18,9,19	Course 1,2,3,9 Core A-C
Week 7	21	Chapter 21: Non-fermenting and	ID organism PASS/FAIL	Course

Date/week	Chapter	Content	Assignments & Tests Due Date	Competency Area
6/28-7/1 SUMMER BREAK 7/5-7/8		miscellaneous GNB		1,2,3,9 Core A-C
Week 8 7/12-7/15	22	Chapter 22: Anaerobes Blood cultures	Anaerobic methods Betalactamase	Course 1,2,3,9 Core A-C
Week 9 7/19-7/22	12&13	Chapter 12: Antibiotic Mechanisms of Action and Resistance Chapter 13: Antimicrobial Susceptibility Media	Test 20,21,22 Antibiotic Resistance/ Source/Plate Review media Quality Control Betalactamase <i>Kirby- Bauer</i> MIC/"D" test	Course 1,2,3,4,5,6,9 Core A-C
Week 10 7/26-7/29	23,24, 25	Chapter 23: Spirochetes Chapter 24: Chlamydia Rickettsia Chapter 25: Mycoplasma and Ureaplasma	Atlas Review cold agglutinin procedure	Course 1,2,3,9 Core A-C
Week 11 8/2-8/5	26, 27, 29	Chapter 26: Mycobacterium Chapter 27: Mycology Chapter 29: Virology	Test 12,13,23,24,25 Kinyon stain power point pictures of stains Bread mold- Lactophenol cotton blue stain India Ink stain <i>Germ tube</i>	Course 1,2,3,5,8 Core A-C
Week 12 8/9-8/12	28	Chapter 28: Parasitology	Test 26,27,29 View permanent slides	Test 26,27,29 View permanent slides
Week 13 8/16-8/19	28	Chapter 28: Parasitology Centers for Disease Control (CDC) Bioterrorism flow chart	View permanent slides Test 28 Microbe card test	Course 1,2,3,7,9 Core A-C
Week 14	Final	Mock Final Final Exam	Mock Final Final Exam	Course 1-12 Core A-C

COMPETENCY AREAS:

1. Microbiology Fundamentals
2. Basic techniques
3. Clinical Microbiology
4. Related lab math
5. Anti-Microbial Sensitivity
6. Safety and quality control
7. Parasitology
8. Mycology, Mycobacteriology, and Virology
9. Correlation of Disease States
10. Process Improvement

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