



**Microbiology – BIOLOGY (BIOL) 2117**  
**COURSE SYLLABUS**  
**Summer Semester 2020**

**COURSE INFORMATION**

Credit Hours/Minutes: 3/2250

Campus/Class Location: Vidalia Campus/Health Sciences Annex (HSA) – Building C

Class Meets: TBD; see Wiley Conferences below

Course Reference Number (CRN): 60224

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Erica M. Harrison

Email Address: [Erica Harrison eharrison@southeasterntech.edu](mailto:eharrison@southeasterntech.edu)

Campus/Office Location: Vidalia/HSA 901

Office Hours: M-F 8 am – 6 pm; see Wiley Conferences below

Phone: (912) 538-3188

Fax: (912) 538-3156

Tutoring Hours (if applicable): By appointment only; see Wiley Conferences below

**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](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

**REQUIRED TEXT**

*Microbiology*; 2nd Edition; Wessner, Dupont, Charles, Neufeld: Copyright 2017. Wiley.

Looseleaf text with WileyPLUS access card: ISBN# 9781119498551

WileyPLUS access card only: 9781119497417

WileyPLUS access is required. However, please note that a hard copy of the text *is not* required. Access to WileyPLUS gives students access to an etext.

**REQUIRED SUPPLIES & SOFTWARE**

Reliable internet access, personal computer or laptop with webcam, WileyPLUS access, ink pens, highlighters, and any other supplies deemed necessary by the instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

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

## **COURSE DESCRIPTION**

Provides students with a foundation in basic microbiology with emphasis on infectious disease. Topics include microbial diversity, microbial cell biology, microbial genetics, interactions and impact of microorganisms and humans, microorganisms and human disease.

## **MAJOR COURSE COMPETENCIES**

1. Microbial Diversity
2. Microbial Cell Biology
3. Microbial Genetics
4. Interactions and Impact of Microorganisms and Humans
5. Microorganisms and Human Disease

## **PREREQUISITE(S)**

BIOL 2113 and BIOL 2113L OR BIOL 1111 and BIOL 1111L

## **COREQUISITE(S)**

BIOL 2117L

## **COURSE OUTLINE**

### **Microbial Diversity**

1. Explain characterization of organisms, including viruses, bacteria, prions, fungi, and protozoa.
2. Classify organisms.

### **Microbial Cell Biology**

1. Summarize the morphology of bacteria.
2. Explain the fine structure of bacteria.
3. Identify common gram negative and gram positive bacteria.
4. Describe bacteria with unusual properties and complex morphology.
5. Describe bacterial growth.
6. Explain the replication of bacteria.
7. Explain the replication of viruses.
8. Describe the various types of energy production.
9. Understand the metabolic diversity of microbes.

### **Microbial Genetics**

1. Describe the cause, consequences and uses of mutations.
2. Explain genetic transfer and recombination.
3. Identify applications of biotechnology.

### **Interactions and Impact of Microorganisms and Humans**

1. Describe factors that affect the ability of the host to resist infection.
2. Describe host innate or natural defense mechanisms.
3. Discuss innate host defenses that offer resistance to microorganism establishment.
4. Discuss adaptive host defenses that offer resistance to microorganism establishment, including antibody formation, active and passive immunity, and natural and acquired immunity.
5. Differentiate between innate and acquired immunity.
6. Discuss the disorders of the immune system.
7. Discuss principles of epidemiology.
8. Explain portals of entry for pathogenic agents.
9. Describe the evasion mechanisms of the pathogen.
10. Describe the indirect and direct disease transmission methods.

11. Discuss the effects of immunosuppressive drug therapy, concurrent disease, and aging on the host-parasite relationship.
12. Discuss the methods by which various antibiotics and chemotherapeutic agents affect microorganisms.
13. Discuss practical applications of various disinfection and sterilization procedures.
14. Evaluate sterility testing procedures.

### **Microorganisms and Human Disease**

1. Identify the causative agents for the major microbial diseases for each of the following systems: respiratory, digestive, genitourinary, integumentary, cardiovascular, nervous, and lymphatic.
2. Describe the symptoms and treatment for the major microbial diseases for each of the body systems.
3. Discuss the methods of control and prevention of disease.
4. Discuss and describe emerging infectious diseases and their ramifications on human health.

### **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**

To be successful in this class, students should study a minimum of 2 hours per credit hour each week (minimum of 6 hours). Before arriving for class, students should read assigned chapters taking special note of bold-faced vocabulary terms and any study questions within the chapter. Failure to comply with these suggestions will make it impossible to understand and follow the lecture assignments or weekly meetings and will result in a student being unsuccessful in this course.

Students are responsible for the policies and procedures in the STC Catalog and Handbook. Additionally, during exams, students are expected to maintain a high level of academic integrity. Respondus lockdown browser and Monitor will be utilized for hour exams. This platform sends testing analytics (including any variations in student activity) to the instructor. **Students found at fault with the system, their cellphone, or any other personal communication device (including smart watches) will be flagged, considered cheating and given a zero for the exam.**

Students are expected to exhibit professional behavior at all times. Each student is to show respect and concern for fellow students and the instructor. Insubordination will not be tolerated, and disciplinary measures will be enacted.

When it comes to contacting your instructor, email should always be the first point of contact. Students are to use their *school email* to contact instructors. No form of personal emails or social media should be used to contact an instructor.

### **ATTENDANCE GUIDELINES**

It is the student's responsibility to be academically engaged each week doing course related 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" (Failing 0-59) in a course.

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. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Students will have at least one week to complete tests and assignments. All assignments are due by 11:45 pm on Sunday of each week. Except for week 10 when the term will end on Thursday, July 30<sup>th</sup>. **Testing does not follow this same schedule.** See lesson plan at the end of the syllabus for more information. Exceptions to the due dates of assignments due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

### **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 \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, 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 \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126.

### **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 (July 8th) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) 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 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.

### **EVALUATION PROCEDURES**

In order to sit for the final exam in this course a student must maintain a Lecture Exam average of 70.0 or above prior to the date of the scheduled final exam. Exam averages of 69.9 *will not* be rounded up. If a student has below a 70.0 average, the student will be given a letter grade based on the exam average. There will be no drop grade for lecture exams.

Exams have a variety of measures to which students must adhere. The testing will require Respondus Lockdown browser and Monitor. As mentioned above, this gives a detailed report of student activity during

exams. A “Trial Run” assignment will be given prior to the first exam so that students can download the proper add-ins and ensure the system works on their computer or laptop.

During exams students are expected to maintain academic integrity. No notes, aid of classmates, or cell phones are to be used. Students found to have variations in their examination report, or evidence of cheating, will be written up for academic misconduct (see measure below and in your student handbook for more information).

**Exam windows will open on Mondays at 12 am of each week and be due no later than 11:45 pm *the same day*. Exams are timed but the testing window closes at 11:45 pm no matter what time you begin your exam. Example: waiting until 11:30 pm on the day an exam is due will only allow 15 minutes to test.**

Any student that has an issue with an exam (internet, browser issues, etc.) must notify the instructor immediately so that reopening/retesting options can be evaluated. Waiting until after the testing window has closed will result in the grade received as is.

## **WILEY CONFERENCES**

Wiley Conferences are a virtual meeting software within WileyPLUS (like an embedded Zoom feature). These meetings are mobile compatible and be utilized throughout the duration of this course. Students go to the “Conferences” menu from their WileyPLUS home page and click “Join.” Students can also schedule these meetings for themselves and classmates should the need arise.

### **Weekly meetings:**

Students will have synchronous learning time each week. This is will be accomplished using the WileyPLUS Conferences features. Conference time will tentatively be held on Monday mornings from 9 – 10 am. This time will be extended accordingly to a maximum meeting time of 8 am – 1 pm. This meeting time will be to deliver a lecture and detailed review of the material from the following week serve as an explanation of course concepts for the week to come.

### **Virtual Office Hours:**

Students in need of tutoring, or those wishing to discuss grades must schedule an individual Wiley Conferences. These are by appointment during my work hours (Monday – Friday 8 am-6 pm) excluding online lecture times.

## **ASSIGNMENTS**

### **Learning Modules:**

In addition to the regular virtual meetings, students must complete each chapter module assigned and any extra practice available to them. This could be in the form of Adaptive Practice assignments (not graded but invaluable for student improvement of course concepts), Explore and the Resources tab found in each section of the text. While module completion is not required for assignments to unlock, it is imperative that students complete this material.

### **WileyPLUS Assignments**

Students are required to complete online assignments through WileyPLUS. These include Assessments and Animation Assignments. Assessments are akin to the end of chapter quizzes that used to be held in hard copies of a text. These are available for every chapter. Animations are a short film or interactive video with about a topic in the chapter with a few questions to follow. There are not animations for every chapter. Follow your lesson plan for more information.

### Group Case Study Presentation:

Students will work in small groups (2-5 people/group) and give an educational presentation on a case study provided by the Instructor. A list of topics to choose from along with guidelines for arrangement, content, requirements, and rubric for presentations are provided in the Case Study Module of WileyPLUS. Presentations should be 25-30 minutes long. Please ensure presentations are within time limit. Points will be deducted for exceeding 30 minutes presenting for fewer than 25 minutes. Students are required to include a visual aid. This can be in the form of short video clips, PowerPoint or Prezi. If video clips are utilized, no more than two video clips are to be used and these are not to exceed 3-4 minutes each. Points will be deducted for additional video clips and for combined clips that use more than 8 minutes of presentation time.

Group members should have equal participation for this project. The week before presentations, the instructor will ask all group members for feedback on equal participation. Feedback on equal participation includes but is not limited to the following: participating at group meetings, corresponding or communicating in a timely manner with group members to provide information on assigned portion of project and providing pertinent information regarding assigned portion of project.

The week of presentations (presentation date indicated on lesson plan), all presentations should be uploaded to the Case Study Final Draft dropbox in WileyPLUS. Presentations will be held via Wiley Conferences during the normally scheduled Wiley Conference time slot (8 am – 1 pm) in 45-minute increments. Times are first come first served and can be reserved at any time prior to presentation week. A running schedule of presentations (including group members and topics) will be kept on the WileyPLUS Case Study Module.

**Dental Hygiene students will be assigned case studies from the “dental” tab. All other health science students will be assigned case studies from the “healthcare” tab. Groups will not mix so don’t ask.**

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

#### Lecture examinations:

Students will be allowed to make up one lecture examination (excluding the final exam), due to a documented, excused absence approved by the instructor. Any subsequently missed lecture exam will result in an automatic zero. Approved documentation must be provided to the instructor prior to the makeup exam date (See Lesson Plan below) in order to sit for the makeup examination.

**There will be no make-up opportunity for the final exam in lecture.**

#### Lecture assignments:

Online WileyPLUS assignments will be accepted late, but not for full credit. If submitted after the due date, these will incur a 10% deduction per day late.

**No late assignments will be accepted after July 19th. This also means no late credit.**

**Group Case Study presentations will not be accepted late. No exceptions.**

### **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:

<p><b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b></p>	<p><b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b></p>
<p>Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1<sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas</a> <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a></p>	<p>Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1<sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3230 Email: <a href="mailto:ljonas@southeasterntech.edu">Lanie Jonas</a> <a href="mailto:ljonas@southeasterntech.edu">ljonas@southeasterntech.edu</a></p>

## 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
Lecture Exams	50%
Case Study Presentation	10%
WileyPLUS Assignments	10%
Final Exam	30%

## GRADING SCALE

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

## DISCLAIMER STATEMENT

Instructor reserves the right to change the syllabus and/or lesson plan as necessary. The official copy of the syllabus is located on the STC M-Drive and will be discussed on the first day of class. The syllabus displayed in advance of the semester in any location is for planning purposes only.



# Microbiology – BIOL 2117

## Summer Semester 2020 Lesson Plan

Subject to change at instructor's discretion. Last updated 5/11/2020

Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
<b>Week 1:</b> 5/26- 5/31	Introduction to course, syllabus review, outline, regulation, etc. Chapter 1 Chapter 2 Chapter 3	Sign in and view instructional video in Blackboard  Join Introductions Conference in WileyPLUS  Introductory Assignment  Ch 1: The Microbial World Ch 2: Bacteria Ch 3: Eukaryal Organisms	Read chapters and advance through Modules before completing course work and Learning Objectives (LOs).  <b>Assignments due 05/31:</b> Ch 1 Assessment Ch 1 Animation Ch 2 Assessment Ch 2 Animation Ch 3 Assessment Ch 3 Animation	CC 1-2 GC a-c
<b>Week 2:</b> 06/01- 06/07	Chapter 4 Chapter 5 Chapter 6	Ch 4: Archaea Ch 5: Viruses Ch 6: Cultivating Microorganisms	<b>Assignments due 06/07:</b> Ch 4 Assessment Ch 5 Assessment Ch 6 Assessment Ch 6 Animation	CC 1-2 GC a-c
<b>Week 3:</b> 06/08- 06/14	<b>Lecture Exam 1</b>  Chapter 7 Chapter 8 Chapter 9	<b>Exam 1: Ch 1-5</b>  Ch 7: DNA Replication and Gene Expression Ch 8: Viral Replication Strategies Ch 9: Bacterial Genetic Analysis and Manipulation	<b>Exam available 12am–11:45pm 06/08 ONLY</b>  <b>Assignments due 06/14:</b> Ch 7 Assessment Ch 7 Animation Ch 8 Assessment Ch 8 Animation Ch 9 Assessment Ch 9 Animation	CC 1-3 GC a-c
<b>Week 4:</b> 06/15- 06/21	Chapter 10 Chapter 11 Chapter 12	Ch 10: Microbial Genomics Ch 11: Regulation of Gene Expression Ch 12: Microbial Biotechnology	<b>Assignments due 06/21:</b> Ch 10 Assessment Ch 10 Animation Ch 11 Assessment Ch 11 Animation Ch 12 Assessment Ch 12 Animation	CC 1-3 GC a-c
<b>Week 5:</b> 06/22- 06/28	<b>Lecture Exam 2</b>  Chapter 13 Chapter 14 Chapter 15	<b>Exam 2: Ch 6-10</b>  Ch 13: Metabolism Ch 14: Biogeochemical Cycles Ch 15: Microbial Ecosystems	<b>Exam available 12am–11:45pm 06/22 ONLY</b>  <b>Assignments due 06/28:</b> Ch 13 Assessment Ch 13 Animation Ch 14 Assessment Ch 15 Assessment	CC 4-5 GC a-c

Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
<b>Week 6:</b> 06/29- 07/05	<b>Lecture Exam 3</b>  Chapter 16 Chapter 17 Chapter 18	<b>Exam 3: Ch 11-15</b>  Ch 16: Microbiology of Food and Water Ch 17: Microbial Symbionts Ch 18: Intro to Infectious Disease	<b>Exam available 12am–11:45pm 06/29 ONLY</b>  <b>Assignments due 07/05:</b> Ch 16 Assessment Ch 17 Assessment Ch 18 Assessment	CC 4-5 GC a-c
<b>07/06</b>		<b>Independence Day Holiday</b>	<b>Weekly Conference will still be held but not required.</b>	
<b>Week 7:</b> 07/07- 07/12	Chapter 19 Chapter 20 Chapter 21	Ch 19: Innate Host Defenses Ch 20: Adaptive Immunity Ch 21: Bacterial Pathogenesis	<b>Assignments due 07/12:</b> Ch 19 Assessment Ch 19 Animation Ch 20 Assessment Ch 20 Animation Ch 21 Assessment	CC 1-2,4-5 GC a-c
<b>Week 8:</b> 07/13- 07/19	<b>Lecture Exam 4</b>  Chapter 22 Chapter 23 Chapter 24	<b>Exam 4: Ch 16-20</b>  Ch 22: Viral Pathogenesis Ch 23: Eukaryal Pathogenesis Ch 24: Control of Infectious Disease	<b>Exam available 12am–11:45pm 07/13 ONLY</b>  <b>Assignments due 07/19:</b> Ch 22 Assessment Ch 22 Animation Ch 23 Assessment Ch 24 Assessment Ch 24 Animation	CC 1-2,4-5 GC a-c
<b>Week 9:</b> 07/20- 07/26	Presentations Makeup Exams	Case Study Presentation Week Makeup Exam week	<b>See syllabus for information on both these events</b>	CC 1-5 GC a-c
<b>Week 10:</b> 07/27- 07/30	Ch 1-24	Lecture Final Exam	Comprehensive Final  <b>If you wait until the last minute, you <i>must</i> start before 10:05 pm to have the full allotted time. Students waiting until later will not be given extensions if they run out of test time.</b>	CC 1-5 GC a-c

#### COMPETENCY AREAS:

1. Microbial Diversity
2. Microbial Cell Diversity
3. Microbial Genetics
4. Interactions and Impact of Microorganisms and Humans
5. Microorganisms and Human Disease

**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.

# Case Study Presentation Evaluation

**PRESENTATION TOPIC:**

**GROUP MEMBERS:**

## CASE STUDY PRESENTATION RUBRIC

Students must adhere to rubric to outline presentation

Section/Points Possible	Criteria	Comments	Points Earned
<b>Introduction/Background 20 points possible</b>	The presenter(s) introduced the case by providing: an introduction to the case, past dental history, background and health history of the patient.		
<b>Diagnosis and Treatment 20 points possible</b>	The presenter(s) provided adequate information on their patient's disease or disorder which includes but is not limited to: symptoms, diagnosis, treatment methods/plans, assessment and dental hygiene educational intervention.		
<b>Ongoing Research 20 points possible</b>	The presenter(s) adequately summarized the outcomes that should result from assessment, discussed current efforts to improve treatment (education, prevention, and self-care practices).		
<b>Group Participation 20 points possible</b>	All group members had equal participation which includes but is not limited to: in and out of class meeting attendance, timely correspondence and communication, and provision of pertinent information on assigned portions of project.		
<b>Overall Presentation Quality 20 points possible</b>	The preparation, delivery, use of visual aids and video clips were classroom appropriate, interesting, and informative. The presentation met the time limits for the assignment. Students followed instructions for the organization of the presentation. Multiple choice questions were discussed, answered and conducted as a question-answer session after the presentation.		
		<b>Total Points:</b>	