



BIOL 2420.101C3/601C3

Microbiology

Fall 2025

M/W/T/R 11:00am-1:50pm; Lecture – Mon (STE 342); Lab – Wed (STE-317)

Instructor Information: Dr. Raymond Nwachukwu; RNwachukwu@com.edu; (409) 933-8502

Student (Office) hours and location:

Office Hours: M/W 9:00-10:45am; 5:30-7:30pm; or by appointment.

Location: STE 325-24

Required Textbook/Materials:

Textbook – Tortora, G.J., Funke, B.R. & Case, C.L., 2016. *Microbiology: An Introduction, 13th edition* (e-Text), Boston, MA; Pearson Education, Inc. Publisher bundled with Mastering Microbiology on-line component. ISBN-13: 9780134605180. This e-book, together with the Mastering Microbiology component, is purchased at the time of registration, and you will gain access once you are in D2L from the first day of class.

Lab manual – Nwachukwu, R.E.S., 2024. *COM Microbiology Lab Manual, draft edition*; Texas City, Texas. This is free and available in D2L as PDF documents.

Lab Coat – Made of polyester, cotton, or blend. Disposable plastic coats are NOT acceptable. Detailed information is found [here](#). You will keep your lab coat in the lab in a designated place after each lab. You may take it back with you, if you so desire, at the end of the last lab of the semester.

Exam Scantrons – Six (6) computer answer forms (Scantron Form #888-E), available at the college bookstore. Everyone is responsible for their scantrons: I don't keep them for students.

Software & hardware – The computer and internet configurations needed for this class are:

- ❖ **Computer/PC** with up-to-date operating systems.
- ❖ **Microsoft Office** (Word, PowerPoint, etc.) from Office 365, free for COM students. Use your COM ID to access it. Contact COM IT [helpdesk](#) for assistance if you have problems.
- ❖ **Adobe Acrobat Reader DC**. Available for free at <https://get.adobe.com/reader/otherversions/>.
- ❖ Brightspace-supported **web browser** (e.g., Chrome).
- ❖ Your **COM e-mail** account
- ❖ **Wi-fi/Internet** access
- ❖ **Webcam**. Usually inbuilt into your computer/laptop. Only required if taking an exam online.
- ❖ **Respondus Lockdown Browser**. Only required to take exams online. May not be compatible with mobile devices.
- ❖ **Phone scan app** (e.g., Adobe Scan) on Phone. This is necessary but not required. It allows you scan assignments as PDF using your phones (if you want to submit assignments online).

Other Accessories – Other important materials and PPE for the lab include

- i. **Safety glasses** – provided in the lab. Purchase yours if you do not want to use common ones.
- ii. **Coloring pencils** – required for use in the lab. Buy yours.
- iii. **Sharpie** – to be used in the lab.
- iv. **Mask/Face Covering** – optional. If you choose to wear it, a disposable mask is recommended because you must dispose of it in the trash bin at the end of each lab before leaving the lab room.

Course Description: This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. This course covers basics of culture and identification of bacteria and microbial ecology.

Course Prerequisites: Two lab-based courses (eight credit hours) selected from biology or chemistry core curriculum courses with a grade “C” or better.

Course requirements:

Lecture and Laboratory Exams – You will have two lab practical and four lecture exams over the duration of the course. The tests will all be in multiple-choice format, reflecting fill-in-the-blank, matching, identification, and true-false questions. They will also include short answer questions. **For short answer questions, the correct format for binomial nomenclature (rule for naming microorganisms) must be observed to receive credit.** Your lowest lecture exam may be dropped if you meet the condition (see [Attendance policy](#)), except a “0” grade received for academic dishonesty or for missing the test without excused absence. All tests will be taken in class. However, the lecture exam may, at the discretion of the instructor, be taken at COM Testing Center or online in D2L, under special circumstances at the instructor’s discretion, if the student meets any one of these 2 conditions:

1. *The student qualifies for accommodation and specifically requests not to take the exam in class.*
2. *The student is not (or may not be) present on the scheduled test date due to excused absence.*

For online option, the test must be taken via Respondus Lockdown Browser+webcam. Each test must be done by the due date (or end date if taken online). Any test not completed by the due/end date will receive a “zero” grade.

I retain all Exams. To review any test, you should make an appointment with me within one week after the test. For tests taken online, the reviews are available immediately after you finish.

Lecture Quizzes – There are 28 open-book quizzes for this class consisting of a syllabus quiz and 27 Mastering assignments (one per chapter). The syllabus quiz is to be taken online directly in D2L while the Mastering assignments are accessed online via “My Mastering” module in D2L. See “*Instructions for Registering Mastering Microbiology*” in “My Mastering” module of D2L. You are required to do any twenty (20) quizzes. But if you do all, the lowest 8 grades will be dropped.

Term Paper – You will write a not-less-than-three-paged term paper on either an Emerging Infectious Disease due to Vaccine Hesitancy or a Viral Disease Outbreak/Pandemic. It is a required individual

assignment and carries 10% of the course grade. The citations and references must follow APA format. The detailed instructions and grading rubrics for the paper are found in “Assignments” tab in the D2L.

Laboratory Activities and Project – There are 25 lab activities and one project in this class. The lab activities consist of 23 lab exercises, 1 pre-class exercise, and 1 lab safety quiz. Lab safety quiz is an individual activity that must be completed by the 1st day of lab (2nd day of class). It is accessed via “My Mastering” module in D2L. Pre-class exercise is a Brightspace & syllabus orientation exercise. It is also an individual activity which each student should perform and submit within the 1st week of the semester. It is located within the “Read Me First” module in D2L. Lab exercises will be done as teamwork, each team consisting of 3-4 students. Every student must sign up to a team by the 2nd day of the semester (before 1st lab exercise) if not already assigned by the D2L system. For each exercise, there is a report (Results and Discussion) associated with it. A team will submit one completed report at the end of every exercise, with the names of team members written on the front page. For details, see “*How to Join a Lab Team*” in “Read Me First” module of D2L. The lab project is the unknown lab, which is the last lab of the semester. It is an individual project that each student must conduct alone and submit the report. All the lab activities and project are mandatory (see the [Attendance policy](#)) and will be performed in a total of thirteen (13) lab sessions/meetings, where each session may involve multiple lab exercises. A student cannot miss more than 20% of the lab sessions (see [Lab attendance](#)). The lab and the lab equipment/materials must be kept in the same clean and safe conditions as the students met them before lab. If a student does not follow proper lab safety protocol during any lab experiment, he/she will be penalized by points deduction, up to 100%, from the lab report. If any student or team does not properly clean up after the lab of the day, the student, the entire team, or the whole class may be penalized by substantial points deduction up to 100% of the grade for the lab(s) of the day. The degree and scope of penalty depends on the type and level of mess, and at the discretion of the instructor.

Extra Credits – There will be opportunities to earn bonus credits of 80+ points, if you meet the eligibility requirement (see the [extra credit policy](#)). The extra credits are optional and will not affect your grade if you do not do them, but they may improve your final grade if you do them.

Respondus Lockdown Browser and Monitor – This software is not a requirement for this class. It is only required for any student that would take an exam online. It may not be compatible with mobile devices. To install it, log into D2L, click on “**Quizzes**” tab, click on “**practice test**” (or any test that requires Lockdown Browser), scroll down to the end and click on “**Launch Lockdown Browser**”. Follow the prompts to complete the installation. To watch the video guide, click on this [COM Student Guide to Lockdown Browser](#). You may also watch this [short video](#) to get a basic understanding of Lockdown browser and the webcam feature. A student [Quick Start Guide](#) is also available.

To ensure the Lockdown browser and webcam are set up properly, do the following:

- ❖ Click on “**Practice test**” or any quiz you want to take that requires lockdown.
- ❖ Scroll down to the end and click on “**Launch Lockdown Browser**”.
- ❖ Locate and click on the “**Help Center**” button on the lockdown browser toolbar.
- ❖ Select “**I’m using Lockdown browser and monitor**”
- ❖ Run the **Webcam Check** and, if necessary, resolve any issues.
- ❖ If using a built-in webcam, avoid tilting the screen after the webcam setup is complete.
- ❖ Exit the Help Center and return to your Practice Test.
- ❖ Exit Lockdown browser upon completing and submitting the test.

Any online exam a student fails to take through Respondus lockdown browser + webcam **will not be accepted.** (I will award a “zero” for such test).

Determination of Course Grade/Detailed Grading Formula: Grades are based on weight, not points.

Course Assessment	Total Points	Percentage of Course
LECTURE PORTION	700	65.0%
Lecture Quiz /Mastering Assignment (28)	200	20.0 %
Lecture Exam (4)	400	35.0 %
Term Paper	100	10.0 %
LABORATORY PORTION	490	35.0%
Lab Practical (2)	200	18.0%
Lab Activity (25)	230	12.0%
Lab Project	60	5.0%
TOTAL POINTS	1,190	100%

Grading Scale: – The grade scales are weighted to the nearest whole number.

A – A weighted earned grade that equals 90% or more

B – A weighted earned grade that is between 80% and 89% inclusive

C – A weighted earned grade that is between 70% and 79% inclusive

D – A weighted earned grade that is between 60% and 69% inclusive

F – A weighted earned grade that equals 59% or less, or that fails to meet either the [lab science policy](#) or the [lab attendance](#) policy

FN – A weighted earned grade that equals 59% or less due to discontinued attendance and participation.

I – An incomplete grade assigned at the discretion of the instructor in accordance with the college policy.

Lab Science Policy:

The grade for this course consists of both lecture and laboratory components. Students must earn a 70% or better in the laboratory component to pass the course. Earning less than 70% in the laboratory component will result in an F for the course regardless of the lecture or overall grade. Passing the laboratory component and failing the lecture component will not guarantee a passing grade for the course. Deviations from this policy will be at the sole discretion of the instructor.

Late Work, Make-Up, and Extra-Credit Policy:

Late work – Do not turn in any assignment late. A substantial number of points, up to 100%, may be deducted.

Make-up – There may be a maximum of one (1) make up, at the instructor’s discretion, for lecture exam missed due to an excused absence supported with documented evidence. If one must miss a lecture exam because of an emergency, he/she must contact the instructor **before** the start of the scheduled exam and provide documentation as legitimate proof of the absence. Arrangements may be made for the student to take the exam online or at the Testing Center at a time not later than 48 hours after the scheduled date. To take the exam at the Testing Center, the student is required to first book an appointment [here](#) (or at link: <https://departmentexams.youcanbook.me/>) before going to the Testing center to take the test. If one

knew in advance that s/he would be unable to attend an exam, s/he may take the exam earlier than scheduled. There is no make-up for any missed online assessment or lab practical. Every assignment/quiz to be taken online will be available and accessible for at least 5 days prior to the due date. Therefore, there is no excuse for missing a due assessment. The instructor could, however, make exceptions to this policy on an individual basis under special circumstances.

Extra credit – Bonus grades are dependent on attendance. If a student has a combined lecture and lab attendance below 80%, he/she may **not** be eligible for extra credit. Any extra credit earned by that student, except bonus for course evaluation, may not be applied in the final grade calculation.

Attendance Policy:

Attendance and participation are critical to success in this class. I do know that circumstances such as illness, death in the family, etc. come up unexpectedly and may cause a student to be tardy or miss a class. I expect that the student would make every effort to come to class/lab on time, or contact me if he/she is running late or needs to miss class. This **does not** automatically grant excused absence. For any absence that would lead to missing a lab or a test to be excused, the student must provide documentable evidence, such as a doctor's note, written in the English Language, for the absence to be excused. A student with excused absence may be exempted from the missed lab or, where possible, be rescheduled for a make-up lecture exam or lab.

- Attendance is taken twice a week: one for lecture, the other for lab.
- If a student accumulates 2 consecutive absences, or misses a required due assessment, I may submit his/her name to the Early Alert System to visit with the Student Success Center.
- Total attendance (Lecture & Lab) below 70% may prevent a student from taking the final exam.
- Total attendance below 80% may disqualify one from extra credit, except course evaluation bonus.
- A student with a total attendance below 90% may be disqualified from having the lowest lecture exam grade dropped or replaced by a higher final exam grade.

Lab attendance – A student is required to come to lab and participate in at least 80% of the lab activities to complete the exercises required in the laboratory component of this course. Failure to attend 80% of lab meetings will result in a failing laboratory grade and an “F” grade for the course. Attendance is taken at the beginning of lab (15 minutes after lab begins). Excused absences (with documented evidence) will be handled on a case-by-case basis and at the discretion of the instructor.

Lecture attendance – Lecture attendance is taken at the beginning of class (about 10 minutes after class begins). Excessive absence from lectures may disqualify a student from taking the final exam.

Tardiness and early leave – Tardiness, recorded as partial attendance, may become a complete absence if the student is not present without excuse 45 minutes after class/lab has started. It could prevent a student from participating in lab activities. Similarly, unexcused early leaving is recorded as partial attendance, and may be downgraded to absence if the student left more than 45 minutes before end of class or lab.

Additional Policies:

Miscellaneous policies regarding classroom conduct, lab use and test-taking – If a student is having difficulty with the class or course material, s/he should discuss with the instructor during office hours. The student may also contact the instructor via email to discuss or to make an appointment. The following rules apply to all students during lectures or lab:

- No restroom trips during any exam or lab practical.
- Do not wear caps or hats with brims during any exam or practical.
- All phones & electronic accessories must be turned off and put away during **every** test.
- Use of phones/electronics or accessories for texting, chatting, etc. during class/lab is not allowed. The device may be confiscated for the rest of the day, or the student dismissed for the day. If dismissed, the student will receive a “0” for any graded activity of that day, and the attendance will be recorded as “absent”.
- One who fails to obey these rules violates the civility and [academic integrity](#) codes. If the violation is during a test, the student will get a “0” for the exam or quiz. A repeat violation may get the student ultimately dropped from class.

When taking an online exam, remember the following guidelines:

- ❖ If the computer or networking environment is different from what was used previously with the webcam check in [Lockdown browser](#) above, run the check again prior to starting a test.
- ❖ Ensure you are in a noise-free location where you will not be interrupted. **No sound from people, television, radio, or other sound-producing gadgets and appliances** must be heard. Your completed test may be rejected for noncompliance and a “zero” awarded.
- ❖ Be sure that the room is well-lit. Avoid backlighting, such as sitting with your back to a window.
- ❖ Turn off all other devices (tablets, phones, ipads, etc.) and place them outside of your reach.
- ❖ Remove, and put outside of your reach, any apple watches you wear.
- ❖ Clear your desk of all external resources or materials not permitted – books, papers, notes, etc.
- ❖ Do not wear baseball caps or hats with brims.
- ❖ Do not block/mask/cover the camera with your palm or anything else while taking a test.
- ❖ Ensure your computer/tablet is on a firm, flat surface (desk or table). Do not have it on your lap, bed, or other surfaces where the device is (or you are) likely to move.
- ❖ If using a built-in webcam, avoid tilting the screen after the webcam setup is complete.
- ❖ Know how much time is available for the test; ensure you have allotted enough time to finish it.
- ❖ Remain at your computer for the duration of the test. The test review is available immediately.

Technology outage – Students are responsible for maintaining their hardware, software, and/or Wi-Fi. No additional time will be provided for hardware, software, or Internet connection problems that interfere with student’s ability to access the course and/or complete online assessments. If any student is incapable of maintaining their own system, s/he should use the computers available on campus. The Tutoring Center and Library are open during the week for students to access computers. Be mindful that access to college computers is limited by the hours of operation for the tutoring center and library. Students are responsible for staying abreast of these times. See Academic Success, Tutoring Center & Support Services below for more details. (Note, ***Respondus Lockdown Browser & monitor may not be available on the COM computers.***) If a verifiable interruption in access to the Course Management System (D2L) lasts for fifteen minutes or longer and occurs within twenty-four hours of an assignment/test, that assessment deadline may be extended at the discretion of the instructor. If a student needs a quiet place to study and/or take an exam, the Tutoring center and the Library are open through the week for such students. They must remember to go with their laptop if the purpose is to take an online test that requires lockdown browser+webcam.

Navigating the Course on Brightspace – The first place to begin on the D2L for this course is the “**Read Me First**”. There, locate and complete the **Pre-Class Exercise (orientation & syllabus exercise)**. It is the best navigation resource, and it is a graded assignment.

Technical and tutorial assistance – For technical assistance or to report a problem with D2L, contact the Educational Technology Services (ETS) by clicking on “**Course Resources**” tab on the course homepage and selecting “**DE Support Request**” from the drop-down menu. For technical assistance with campus Wi-Fi, COM user ID or password, and other campus related IT needs, visit COM [helpdesk](#). The **tutoring center** provides face-to-face and online tutoring sessions in a welcoming environment, and is open for students Monday through Saturday. It provides free tutoring services to students, staff, and faculty seeking assistance for writing, reading, and oral presentations for academic and non-academic assignments/projects. The center also provides free printing for students, and tutoring for science classes. It is located in the Industrial Careers Building, room 109 (or ICB-109). To sign up for the online tutoring, click [here](#) or visit the link <https://com.mywconline.com/>.

Counselling help – If you have any challenges with mental health, depression, etc. do not hesitate to ask for help by calling 409-033-8379. For further information, see the Resources to Help with Stress below on the last page.

Communicating with your instructor:

ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. **Note:** Email is the preferred means to reach or communicate with the instructor. Expect responses within 24 hours during weekdays or 48 hours on weekends.

Student Learner Outcome (SLO)	Maps to Core Objective(s)	Assessed via this Assignment
1. Describe distinctive characteristics and diverse growth requirements of prokaryotic organisms compared to eukaryotic organisms.	Critical Thinking (CT)	Lecture Quizzes 1-3.
2. Provide examples of the impact of microorganisms on agriculture, environment, ecosystem, energy, and human health, including biofilms.	Communication Skills (CS)	Mastering Assignments Ch 05, Ch 27, and Ch 28
3. Distinguish between mechanisms of physical and chemical agents to control microbial populations.	CT	Mastering Assignment Ch 6-7. Lab Ex.14-17 – Control of m/os
4. Explain the unique characteristics of bacterial metabolism and bacterial genetics.	Empirical & Quantitative Skills (EQS)	Exam 2
5. Describe evidence for the evolution of cells, organelles, and major metabolic pathways from early prokaryotes and how phylogenetic trees reflect evolutionary relationships	CS	Mastering Assignment Ch 10, Ch 12, Ch 13
6. Compare characteristics and replication of acellular infectious agents (viruses and prions) with characteristics and reproduction of cellular infectious agents (prokaryotes and eukaryotes).	CT	Lecture Quizzes 11-13.
7. Describe functions of host defenses and the immune system in combating infectious diseases and explain how	CS	Exam 3

immunizations protect against specific diseases.		
8. Explain transmission and virulence mechanisms of cellular and acellular infectious agents.	CS	Lab assgts 10-11 (Ex. 21 & 23) Essay paper
9. Use and comply with laboratory safety rules, procedures, and universal precautions.	CT	Laboratory Safety Assignment
10. Demonstrate proficient use of a compound light microscope.	CT	Lab Assignment 1, Exercise 1 Lab practical 1
11. Describe and prepare widely used stains and wet mounts, and discuss their significance in identification of microorganisms.	CS	Lab assignment 2, Exercise 3 Lab practical 1
12. Perform basic microbiology procedures using aseptic techniques for transfer, isolation and observation of commonly encountered, clinically significant bacteria.	Teamwork (TW)	Lab Assignment 3, Exercises 6 & 7
13. Use different types of bacterial culture media to grow, isolate, and identify microorganisms.	TW CT	Lab assignment 5, Exercise 10 Unknown Lab Project (Ex. 24)
14. Perform basic bacterial identification procedures using biochemical tests.	TW	Lab assignment 11, Exercise 23 Unknown Lab Project (Ex. 24)
15. Estimate the number of microorganisms in a sample using methods such as direct counts, viable plate counts, or spectrophotometric measurements	EQS	Lab Assgt 4 (Ex. 8) – Counting Microbial Populations.
16. Demonstrate basic identification protocols based on microscopic morphology of some common fungi and parasites.	CT	Lab Assgt 8, Exercise 19 Lab practical 2.

Academic Dishonesty:

Academic dishonesty is a violation of academic integrity and includes activities or behaviors such as cheating on tests, plagiarism (the practice of taking someone else's work or ideas and passing them off as one's own), and collusion (helping others cheat and/or plagiarize). Be aware that using AI/ChatGPT to write assignments and/or term papers is a form of cheating and is unacceptable. Disciplinary actions will be taken against any student or group of students who engages in any form of academic dishonesty or exhibits disorderly conduct during class or lab. The consequence may include one or more of a zero score for the test/assignment, an "F" grade in the course, and withdrawal from the class. The student may also be referred to the Vice President of Student Success and Conduct for further disciplinary action including dismissal from the college.

Student Concerns:

If you have any questions or concerns about any aspect of this course, please contact me using the contact information provided on the first page. If, after discussing your concern with me, you continue to have questions, please contact Prof. Abernathy, the Science Department Chair, at 409-933-8330 or sabernathy@com.edu.

Course outline (Tentative schedule):

WK	DATE	LECTURE – Monday (STE-342)	LABORATORY – Wednesday (STE-317)	Assignments/Hw
1	8/18 – 8/23	Ch 1 The Microbial World & You Ch 3 Observing Microorganisms	Lab Safety Ex. 1 Microscopy, Part 1	Pre-Class Exercise Ex. 1 report

		Syllabus Quiz	Ex. 2 Contamination Lab	
2	8/24 – 8/30	Ch 4 Functional Anatomy of Prokaryotic. & Eukaryotic Cells Ch 5 Microbial Metabolism Quiz 1 – Ch 01	Review plates of Ex. 2 Ex. 3 Microscopy, Part 2 Ex. 4 Standard Precautions Ex. 5 Transfer Technique	Lab safety quiz Ex. 2 report Ex. 3 report Intro to Mastering
3	*9/01 8/31 – 9/06	Labor Day (9/1) Holiday; Campus closed Quiz 02 (Ch 03) Quiz 03 (Ch 04)	Review plates of Ex. 4 & 5 Ex. 6 Medical Aseptic Procedure Ex. 7 Streak Plate Technique	Ex. 4 & 5 reports
4	9/07 – 9/13	Ch 5 Microbial Metabolism (cont.) Ch 27 Environmental Microbiology Quiz 4 – Ch 05	Review plates of Ex. 6 & 7 Ex. 8 Counting Microbial Populations Ex. 9 Simple Stain & Bact. Morphology	Dry Lab 2 (bonus) Ex. 6 & 7 reports Ex. 9 report
5	9/14 – 9/20	Ch 28 – Applied & Industrial Microbiology Ch 6 – Microbial Growth Quiz 5 (Ch 27)	Review plates of Ex. 8 Ex. 10 Gram Stain (W) Ex. 11 Capsule Stain (W)	Ex. 8 report Ex. 10 & 11 reports
6	9/21 – 9/27	Quiz 6 – Ch 28 Exam 1 – Chs. 1, 3-5, 27, 28 Ch 7 – Control of Microbial Growth	Ex. 14 – 17 Control of Microorganisms Ex. 14 Moist heat; Ex. 15 UV Light Ex. 16 Disinfectants; Ex. 17 Antibiotics	Ex. 17 report Listeria Outbreak paper
7	9/28 – 10/04	Ch 8 Microbial Genetics Ch 9 Biotechnology & DNA Technology Quiz 7 (Ch.06)	Review plates of Ex. 14-16 Ex. 12 Spore stain Ex. 13 Acid Fast stain	Ex. 14-16 reports Ex. 12 & 13 reports
8	10/05 – 10/11	Ch 10 Classification of Microorganisms Ch 12 The Eukaryotes Ch 13 Viruses, Viroids, & Prions	Lab Practical 1 (Ex. 1-17)	Quiz 8 – Ch 07 Quiz 9 – Ch 08 Quiz 10 – Ch 09
9	10/12 – 10/18	Ch 14 – Principles of Disease & Epidemiology Ch 15 –Mechanisms of Pathogenicity Quiz 11 (Ch. 10)	Ex 19 Parasitology	Ex. 19 report Quiz 12 – Ch 12
10	10/19 – 10/25	Ch 16 – Innate Immunity Quiz 13 – Ch 13 Exam 2 – Chs 6-10, 12, 13	Ex. 18 Bacterial conjugation Ex. 20 Epidemiology	Ex. 20 report Rabies Paper
11	10/26 – 11/01	Ch 17 – Adaptive Immunity Quiz 14 (Ch 14) Quiz 15 (Ch 15)	Review Plates of Ex. 18 Ex 21 Pathogenic Cocci Identification Ex 22 Cultivation of Anaerobic Bacteria	Ex. 18 report
12	11/02 – 11/08	Ch 18 – Practical Applications of Immunology Ch 19 – Disorders of Immune System Quiz 16 (Ch.16)	Review results of Ex. 21 & 22 Ex 23 Enteric Bacteria identification	Ex. 21 & 22 reports Typhoid Mary Quiz 17 – Ch 17
13	11/09 – 11/15 *11/14	Ch 20 – Antimicrobial Drugs Ch 21 – Microbial Diseases of Skin & Eyes Quiz 18 (Ch 18)	Review Ex. 23 plates & results Ex. 24 – Unknown Project: Dichotomous Key draft; Gram Stain & Inoculate Biochemical Tests	Ex. 23 report Dichotomous Key Quiz 19 – Ch 19
14	11/16 – 11/22	Exam 3 – Chs. 14-20) Ch 22 – Microbial Diseases of Nervous System Ch 23 – Microbial Diseases of the Cardiovascular & Lymphatic Systems	Ex. 24 Unknown Project: Evaluate Biochemical Tests & Identify Unknown	Ex. 24 report Quiz 20 – Ch 20 Disease from Spray
15	11/23 – 11/29 11/27	Ch 24 Micro. Diseases of Respiratory Sys Ch 25 Micro. Diseases of Digestive Sys Quiz 21 (Ch 21)	Lab Practical 2 (Ex. 18-23) Ch. 26 Microbial Diseases of the Urinary & Reproductive Systems Thanksgiving Holiday (11/27-28)	Toxigenic E. coli Quiz 22 – Ch 22 Quiz 23 – Ch 23
16	11/30 – 12/05	Quiz 24 (Ch 24) Quiz 25 (Ch 25) Exam 4 (Final) – Chs. 21-26, by Wed, 3rd.	Final Grades published in WebAdvisor by Friday, 5th	Deadly Food Quiz 26 – Ch 26 Term Paper due

***W-Day (Fri, November 14th) – Last day to withdraw from class w/o an F.**

NB: The due dates for assessments on this schedule may not be exact. They are provisional and, therefore, are subject to change. Follow the D2L **Calendar** and **Announcements** for authentic due and/or end dates.

Syllabus Disclaimer: Course policies and schedule are subject to change. Any changes will be posted/uploaded in the D2L. It is the student's responsibility to check the D2L for amendments or updates to the syllabus.

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook <https://www.com.edu/student-services/student-handbook.html>. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodation is requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: AccessibilityServices@com.edu

Location: COM Doyle Family Administration Building, Student Success Center

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 1. The last date to withdraw from the 16-week session is November 14. The last date to withdraw for the 2nd 8-week session is November 25.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer

students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.

Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.