

MICROBIOLOGY NON SCI MAJORS  
**GRAYSON COLLEGE**

***Course Syllabus***

**Course Information**

**BIOL 2320C02 Microbiology**

**Sections:**

**Spring 2021**

Face-to-Face course, Lecture meets 6 hours/week, Testing conducted on campus in the classroom

**Professor Contact Information**

Professor name: McLaughlin, B.

Science Department Phone: 903-463-8797 or 903-463-8702

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**Course Pre-requisites, Co-requisites, and/or Other Restrictions**

Co-requisite: BIOL 2120. Students must have passed the reading portion of the THEA (score of at least 230). Pre-requisites: Successful completion with a grade of C or better in BIOL 2301/2101, CHEM 1406 or CHEM 1311/1111 or consent of the Science Chair required. College readiness in reading required. (R)

**Course Description**

**BIOL 2320. Microbiology (3-0-3).** Study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology. An introduction is made to the principles of microbiology dealing with the essential nature of microorganisms, as well as their economic and pathologic relationships to man including microbial control and epidemiology.

**Student Learning Outcomes**

Student learning outcomes which will be addressed in laboratory and/or lecture.

Students will demonstrate an understanding of factors that lead to microbial antibiotic resistance, as well as techniques for detecting resistance, and assess the effects of such resistance on society. Students will identify examples of harmful as well as beneficial actions of microorganisms, and extrapolate their effects on society.

Students will demonstrate critical thinking, problem solving, and decision making while identifying of bacteria in a culture.

**Required Textbooks**

OpenStax

**Textbook Student Site**

**ISBN-10 1-938168-14-3**

**ISBN-13**

**978-1-938168-14-7**

**Revision**

**MB-2016-000(11/16)-BKB**

<http://cnx.org/content/col12087/latest/> (Links to an external site.)Links to an external site.

### **Suggested Course Materials**

None

### **Required Assignments & Academic Calendar**

**In case of inclement weather, emergency closings, or other unforeseen disruptions to scheduled classes, student must log onto their Canvas accounts for directions on where or how to continue their coursework.**

Table 1 Course Schedule: Topics, Readings, Assignments, Deadlines

Chapter 3 The Cell

Chapter 4 Diversity of Prokaryotic Cells

Chapter 5 Diversity of Eukaryotic Cells

Chapter 6 Introduction to Viruses

Chapter 24 DNA Viruses

Chapter 25 RNA Viruses

**Exam over chapter 3,4,5,6,24 and 25**

Chapter 8 Microbial Metabolism

Chapter 9 Microbial Growth

Chapter 13 Control of Microbial Growth

**Exam over chapters 7, 8, 9, 13**

Chapter 14 Antimicrobial Drugs

Chapter 15 Microbial Mechanisms of Pathogenicity

Chapter 16 Disease and Epidemiology

Chapter 17 Innate Nonspecific Host Defenses

Chapter 18 Adaptive Specific Host Defenses

**Exam over chapters 14, 15, 16, 17 and 18**

From power points

Chapter 18 Cocci

Chapter 19 Gram Positive Bacilli

Chapter 20 Gram Negative Bacilli

Chapter 21 Miscellaneous Bacteria

**Exam over chapters 18, 19, 20, 21.**

Table 1 Course Schedule: Topics, Readings, Assignments, Deadlines

**Dates and sequence of topics are subject to change. Changes will be announced in class in a timely manner.**

### **Required Assignments & Academic Calendar**

**In case of inclement weather, emergency closings, or other unforeseen disruptions to scheduled classes, student must log onto their Canvas accounts for directions on where or how to continue their coursework.**

First day of classes:

Last day to add/change courses:

Thanksgiving Holiday

Last day to drop/withdraw from course:

Final Exams:

### **Methods of Evaluation**

Four major examinations will be given at scheduled times throughout the semester. There will be no make-ups taken after an exam has been returned to the students. Students not taking the exam will receive a grade of "0". Exams may be taken early as scheduled with the instructor for special circumstances. Exams may consist of multiple choice, matching, short answer, fill-in the-blank, true and false and/or discussion questions. Graded exams will be reviewed in class. After the student examines the test, it will be returned to the instructor.

Special projects may be assigned from time to time. Daily quizzes may be given to enhance the learning process. A student may have the ability to earn up to 5 extra credit points for each exam. Extra credit will be discussed in class. The extra credit points will be added to the total number of points earned by taking the four exams before dividing by four to derive the course average.

### **Grading**

Due to the new combined course format lab and lecture will be combined to produce a single grade. The combined grade is calculated by scoring the lab and lecture as described in their individual syllabi. Those grades will then be weighted with the lecture accounting for 60% of the student's final grade and the lab 40%.

Averages will be rounded up or down. For example, an 89.5 will be rounded up to a 90 and 89.4 will be rounded down to an 89.

Letter grades will be assigned as follows:

89.5	-	100	=	A
79.5	-	89.4	=	B
69.5	-	79.4	=	C
59.5	-	69.4	=	D
0	-	59.5	=	F

## **Methods of Instruction**

Video Lectures by the instructor will be the main method of instruction. Group work, class discussions, power point presentations, overhead transparencies, skits, models, etc., may also be incorporated to enhance the learning process.

## **Class Attendance**

Academic success is closely associated with regular classroom attendance and course participation. All successful students, whether on campus or online, are expected to be highly self-motivated. All students are required to participate in courses regularly and are obliged to participate in class activities and complete and submit assignments following their professors' instructions. Students taking courses during compressed semester time frames such as mini-semester, summer sessions, and mid-semester should plan to spend significantly more time per week on the course. Responsibility for work missed because of illness or school business is placed upon the student. More than two (2) absences are considered to be excessive. **In accordance with the College's Developmental Education Plan, students withdrawn from their only developmental course may be withdrawn from all academic courses.** In addition, students' eligibility to receive financial aid or live in a College dormitory can be affected by withdrawal from courses. When administrative withdrawal occurs, any tuition refund would be made in accordance with state regulations.

## **Student Conduct & Discipline**

Please use this link for the Grayson College Student Handbook.

<http://www.grayson.edu/current-students/catalogs-and-handbooks/Student%20Handbook%202016.pdf> (Links to an external site.)Links to an external site. (Links to an external site.)Links to an external site.

## **Classroom Behavior:**

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance and an attitude that seeks to take full advantage of the educational opportunity.

## **Defacing College Property:**

Anyone caught defacing property in the classroom will be responsible for cleaning, repairing or replacing the defaced property. Defacing property includes, but is not limited to, writing, marking or scratching on the tables, tabletops, chairs, cabinets, counter tops, shelving or walls.

**Cell Phone Policy:**

All cell phones and other electronic devices must be turned off before entering the classroom. Text messaging is not permitted during class. If you have an emergency and need to take a call during class, you must inform the instructor before the beginning of class. Turn your ringer to vibrate, and when your call comes in, pick up all of your belongings and leave the classroom. You may return to class the next time the class meets.

**Academic Integrity:**

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic Dishonesty, any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the college's policy on plagiarism (see GC Student Handbook for details). Grayson College subscribes to turnitin.com, which allows faculty to search the web and identify plagiarized material.

**The policy of the Science Department:** Any instance of a) plagiarism, b) collusion, c) cheating, or d) falsifying records, will result in a "0" for the assignment. The "0" assigned for cheating cannot be dropped or replaced by another grade when calculating the course average.

**TITLE IX**

GC policy prohibits discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex, sexual orientation, spousal affiliation and protected veterans status.

Furthermore, Title IX prohibits sex discrimination to include sexual misconduct: sexual violence (sexual assault, rape), sexual harassment and retaliation.

For more information on Title IX, please contact:

Dr. \_\_\_\_\_, Title IX Coordinator (903-463-8714)

Mrs. \_\_\_\_\_, Title IX Deputy Coordinator- South Campus (903) 415-2506

Mr. Mike McBrayer, Title IX Deputy Coordinator (903) 463-8753

Website: <http://www.grayson.edu/campus-life/campus-police/title-ix-policies.html> (Links to an external site.)Links to an external site.

GC Police Department: (903) 463-8777- Main Campus) (903) 415-2501 - South Campus)

GC Counseling Center: (903) 463-8730

For Any On-campus Emergencies: 911

## **COVID-19 Syllabus Information**

Grayson College continues to monitor the evolving COVID-19 situation and align our college planning with guidance from the local and state health officials. Our primary goal is to protect the health and safety of our students, faculty, staff, and the Grayson community, while delivering quality education. We will continue to communicate as more information becomes available.

Safety requirements for students, faculty, staff, and the general public will be posted and kept current, so please stay tuned to your Viking email and the COVID 19 page on the Grayson College website for additional information or other changes that may be announced.

## **Grayson College COVID-19 Safety Protocol**

The best way to prevent illness is to avoid being exposed to this virus. However, as a reminder, the Centers for Disease Control and Prevention (CDC) always recommends everyday preventive actions to help prevent the spread of respiratory diseases, including:

- Wash your hands often with soap and water for at least 20 seconds, especially after going to the bathroom; before eating; and after blowing your nose, coughing, or sneezing. If soap and water are not readily available, use an alcohol-based hand sanitizer with at least 60% alcohol.
- Always wash hands with soap and water if your hands are visibly dirty. For information about handwashing, see CDC's Handwashing website.
- Avoid touching your eyes, nose, and mouth.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.
- Avoid close contact with people who are sick.
- Stay home when you are sick.

## **Grayson College COVID-19 Instructional Guidelines**

Grayson College continues to monitor information relating to the COVID-19 Pandemic. The College has taken steps to ensure that as many of our programs/courses can continue in the event that the College must re-institute partial and/or full campus closure to the public.

Quality education will be moved to a remote delivery format, when feasible, which includes one or more of the following methods:

- Live Streaming instruction (synchronous)
- Recorded instruction (asynchronous)
- Online or web activities using the Canvas platform
- Video capture, both live and recorded sessions
- Use of open educational resources ( OER ) in place of traditional textbooks

### **Grayson College COVID-19 Lab Safety Protocol**

In accordance with the Texas Department of Health and Human Services, Grayson College will follow these guidelines:

Groups of 9 or less may be scheduled for small group labs, where hands-on skills are necessary to be practiced or demonstrated DMW 5.5.20

Social distancing will be practiced to reduce the risk of transferring germs

Faculty and students will be screened prior to entering a lab or classroom, which will include:

Taking each person's temperature

Asking CDC-standard questions

All persons will wash hands with soap and water upon admittance

Students and faculty will participate in sanitation and cleaning of equipment and workspace at the conclusion of each session

Students are encouraged to:

- Log in to Canvas and communicate with your faculty as needed.
- Study and complete assignments in a timely manner
- Ask questions along the way

**Grayson College is not responsible for illness/injury that occurs during the normal course of classroom/lab/clinical experiences.**

**These descriptions and timelines are subject to change at the discretion of the Professor.**

**Grayson College campus-wide student policies may be found in each Canvas course shell under the menu item "Student Services".**