

General Microbiology – 2340 (Fall 2022) CRN # 12931
Undergraduate Learning Center (UGLC) 126 (1:30 pm to 2:50 pm MW)
Dr. Colin A. Bill (Dr. Bill or Prof. Bill)
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COURSE OBJECTIVES: This course will provide an understanding of the following:

- Learn basic biology of microorganisms (All three domains of life).
- Understand basic structure and physiology of microbial cells including cell structure, cell membranes, metabolism, reproduction, communication.
- Understand DNA replication, RNA transcription, protein translation.
- Understand the role of microbial cells in the environment and ecosystems.
- Understand the immune system and how humans deal with microorganism infections.

Textbook: Brock Biology of Microorganisms 15th Edition. Madigan, Bender, Buckley, Sattley and Stahl. Pearson 2018.

Please note that we will be using the 15th edition. Earlier editions will likely be cheaper, but they will also be missing information that you will need for the exams. There is a 16th edition, which I will not be using. You can get the 15th edition from the university bookstore. You might want to check prices at other sources e.g. Amazon that might be cheaper than the bookstore or purchase a PDF version.

Course Requirements

The course will be via in person lectures. PowerPoints will be provided in Blackboard, which you can review to complement the lectures or as a substitute, if you miss a class.

It is very important that you check your UTEP email and Blackboard on a frequent basis (several times a day). I will not accept excuses that you did not know something because you had not bothered to check your emails/Blackboard/Syllabus and you missed an exam/Blackboard assignment. **If I need to deviate from the syllabus for some reason, I will let you know by email and update the syllabus.**

Contact Me: I will make every attempt to respond to your e-mail within a few hours of receipt. I will likely not respond to emails sent after 6 pm until the following day. When e-mailing me, be sure to email from your UTEP student account. In the body of your e-mail, clearly state your question. Please email me directly, DO NOT use Blackboard message system.

The course has **four main components**, which will be graded and add up to your final score that will be converted into a letter grade (see below).

1) Multiple Choice Exams (60% of total score)

The main component of your overall grade are multiple choice exams. Each exam will consist of 50 multiple choice questions and **MUST BE COMPLETED** on the day/time specified **IN THE CLASSROOM** using a laptop or iPad. **If you attempt to take any exams outside of the classroom, your score WILL NOT count and will be changed to zero.** If you do not have a suitable laptop, then you will either need to borrow somebody else's or borrow one from the library.

There will be **six regular exams throughout the semester followed by a final exam, which will be on material covered after exam six only** (total seven exams). I will drop your lowest exam score from the six regular exams. **The final exam is compulsory and cannot be dropped.**

All multiple-choice exams will require use of Respondus Lockdown Browser. Please follow the instructions: https://www.utep.edu/technologysupport/Files/docs/MM_Respondus-Student.pdf
The exams **CANNOT** be taken using any other browser

Make-up Policy: There are NO make-up exams. You are expected to take the exam on the specified date.

2) Packback Questions (15% of total score)

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online community where you can be fearlessly curious and ask open-ended questions to build on top of what we are covering in class and relate topics to real-world applications.

Packback Requirements:

Your participation on Packback will count toward 15% of your overall course grade.

There will be a Weekly Sunday at 11:59 pm Mountain Time deadline for submissions. To receive full credit, you should submit the following per each deadline period:

- 1 open-ended Question every week with a minimum Curiosity Score of 50, worth 33.33% of each assignment grade
- 2 Responses every week with a minimum Curiosity Score of 50, worth 66.67% of each assignment grade

- Half credit will be provided for questions and responses that do not meet the minimum curiosity score.

How to Register on Packback:

Note: Only access Packback through Blackboard to ensure your grades sync properly

1. Login to our class Blackboard page
2. Locate the **Packback** in the navigation panel on the left-hand side of the page
3. Locate and open the first Packback assignment
4. Follow the instructions on screen to finish your registration.

Packback requires a paid subscription (\$29). Refer to www.packback.co/product/pricing for more information. *If you have any financial constraints that inhibit your ability to purchase Packback, please reach out to help@packback.co for assistance.*

How to Get Help from the Packback Team:

If you have any questions or concerns about Packback throughout the semester, please read their FAQ at help.packback.co. If you need more help, contact their customer support team directly at help@packback.co.

For a brief introduction to Packback Questions and why we are using it in class, watch this video:
<https://www.youtube.com/watch?v=OV7QmikrD68>

3) In-Class Questions (15% of total score)

Random **FIVE QUESTION quizzes** will be assigned during class time on material covered that day. Results will be collected using iClicker. **If you miss in-class questions there are no make-up quizzes.**

4) Discussion Board (10% of total score)

Every week, I will post a discussion board thread that every student must respond to. You are expected to write at least one paragraph, more if you like, but do not contribute more than three paragraphs. Threads will be reviewed by me for content and given a maximum grade of 3. Minimal effort or answers off-topic will result in a score of 1 or 2. **Responses will be checked for plagiarism.** You will have until **Sunday at 11:59 pm to complete the discussion thread.** Please note that failure to submit a response by Sunday night will result in a score of zero for that discussion thread.

Grading:

A grade = 80 to 100%

B grade = 70 to < 80%

C grade = 60 to < 70%

D grade = 50 to < 60%

F grade = < 50%

Grade Calculations:

Grade percentages that add up to your total score will be calculated as follows:

Multiple Choice Exams = 60% of final score

Packback = 15% of final score

In-class questions = 15% of final score

Discussion board = 10% of final score

Your final percentage will be converted into a letter grade as listed under grading. Please note that **I do not** round up or down. This means that if your final cumulative score is 59.95% you will receive a D grade. **PLEASE NOTE THAT THERE IS NO EXTRA CREDIT.**

Drop Policy:

October 28th IS THE LAST DAY STUDENTS MAY DROP THE CLASS WITH AN AUTOMATIC “W”. UTEP regulations state: “Student-initiated drops are permitted after this date, but the student is not guaranteed a grade of W. The faculty member of record will issue a grade of either W or F”. It is my

policy that students should decide to drop on or before October 28th and if they decide to drop after the deadline, they will be assigned a grade of F.

Incomplete Grade

All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by me, and the student. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam or project. If the student missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.

Failure to Keep Up with Course Exams/Assignments

According to UTEP Curriculum and Classroom Policies, "When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of "W" before the course drop deadline and with a grade of "F" after the course drop deadline." See academic regulations in the UTEP Undergraduate Catalog for a list of excused absences. Therefore, if I find that, due to non-performance in the course, you are at risk of failing, I will drop you from the course. I will provide 24 hours advance notice via email.

Vacation Days

Please note that on the following days the university will be shut:

September 5th – Labor Day

November 24th and 25th – Thanksgiving Holiday

Academic Integrity: UTEP policy on academic integrity can be found at:

<http://sa.utep.edu/osccr/academic-integrity/>. **ANY SUSPICIOUS ACTIVITY ON EXAMS OR**

ASSIGNMENTS WILL BE REPORTED to the Office of Student Conduct and Conflict Resolution (OSCCR).

Once I have reported incidents of alleged "Acts of scholastic dishonesty" they will be investigated independently by OSCCR who will either decide that there is insufficient evidence and dismiss the case or they agree that the evidence highly suggests the student was cheating then they will decide the punishment. Typically, the punishment results in a zero score for each exam that the student is cheating, which usually results in the student failing the class (F grade).

No headphones/ear buds allowed during exams. This should be obvious, but you are not allowed to use anything that could potentially be used to cheat. Anybody who is seen to be using a device that could be used for cheating will be reported to OSCCR for investigation. There is a **zero tolerance**, which means that I will not warn you about being reported and it would be a pity to fail a class when you were just listening to music. If you use a prescription hearing aid then let me know ASAP, so that I can account for their use (I will request proof they are prescription hearing aids and a justification for their use in an exam).

The bottom line is DO NOT CHEAT. The consequences can be dire and potentially prevent you from reaching your career goals. If you are struggling in the class, let me know and we can talk about strategies to succeed.

Civility Statement: Please be respectful of all students' rights. Profanity or threatening language will result in immediate ejection from the session and possible disciplinary action that could lead to the student being removed from the course or in severe cases removed from the university.

Disability Statement: If you have a disability and need accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Course Schedule (Subject to change):

Date		TOPIC
8/22	M	Syllabus Discussion/ Ch 2 Microbial Cell Structure and Function
8/24	W	Ch 2 Microbial Cell Structure and Function
8/29	M	Ch 2 Microbial Cell Structure and Function
8/31	W	EXAM 1
9/05	M	Labor Day – No Class
9/07	W	Ch 3 Microbial Metabolism
9/12	M	Ch 3 Microbial Metabolism
9/14	W	Ch 3 Microbial Metabolism
9/19	M	EXAM 2
9/21	W	Ch 4 Molecular Information Flow and Protein Processing
9/26	M	Ch 4 Molecular Information Flow and Protein Processing
9/28	W	Ch 4 Molecular Information Flow and Protein Processing
10/03	M	EXAM 3
10/05	W	Ch 5 Microbial Growth and its Control
10/10	M	Ch 5 Microbial Growth and its Control
10/12	W	Ch 5 Microbial Growth and its Control
10/17	M	EXAM 4
10/19	W	Ch 6 Microbial Regulatory Systems
10/24	M	Ch 6 Microbial Regulatory Systems
10/26	W	EXAM 5
10/31	M	Ch 8 Viruses and their Replication
11/02	W	Ch 8 Viruses and their Replication
11/07	M	EXAM 6
11/09	W	Ch 11 Genetics of Bacteria and Archaea
11/14	M	Ch 11 Genetics of Bacteria and Archaea
11/16	W	Ch 24 Microbial Symbioses with Humans
11/21	M	No Class
11/23	W	Ch 24 Microbial Symbioses with Humans/ Ch 25 Microbial Infection and Pathogenesis
11/28	M	Ch 25 Microbial Infection and Pathogenesis/ Ch 26 and 27 Innate and Adaptive Immunity
11/30	W	Ch 26 and 27 Innate and Adaptive Immunity

Final Exam – Wednesday December 7th, 4:00 pm to 6:45 pm