

GENERAL BIOLOGY (BIOL 1305)

Course Syllabus, spring 2023

CRN: (20794)

MW: 9:00-10:20 am

UGLC 116

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TEXTBOOK– *Life – The Science of Biology* (8th, 9th, 10th, 11th or 12th ed, Volume D), Purves, Sadava, Hillis, Heller, Berenbaum.

Editorial: Sinauer Associates.

First class	January 18th
Census Day:	Feb 1 st
Spring break	March 13-17
Course Drop Deadline:	March 30th
Last day of classes	May 4th
Final Exam:	Wednesday, May 10th, 10 am – 12:45 pm

All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. Although UTEP will allow a maximum of one year to complete this contract, the College of Science requests it be limited to month based upon completion data. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab. If the student has missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.

CLASS RECORDINGS

This is an in-person class and you can record the lecture.

COVID

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week

of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

Center for accommodation and support services:

If you have a disability and need classroom 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.

OBJECTIVES:

Upon completion of this class, students should be able to:

- Understand the basic structure of atoms and molecules
- Understand the basic structure and physiology of the cell
- Explain the connection between energy, enzymes, and metabolism in living cells
- Describe the basic structure of DNA and RNA.

EXAMINATION PROCEDURE

- There will be four on-line exams during the semester. You will find them in blackboard from 9-10:20 on the day of the exam.
- You must take all four exams. If you missed exams without a university accepted excuse, you may be withdrawn from the course.
- There will be four on-line quizzes to answer during the weeks before each corresponding exam. It is due the day before the exam at 12:00 am. All available in blackboard.
- There will be a comprehensive on-line **Final Examination** of all the chapters that we have covered during the semester.
- Attendance is NOT required but you are encouraged to attend to the lectures. Only those that attend the lectures will be entitled for extra credits. DO NOT send me e-mail if you do not attend the lecture, read the chapter covered on that particular date.

GRADING POLICY

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = Below 60

GRADE DISTRIBUTION

Exams (4)	60%
Final Exam	20%
Quizzes,	20%

THINGS NOT ALLOWED IN THE CLASSROOM

- Talking, cell phones
- Waking out before the class is dismissed
- Listening music, earphones
- Reading newspapers or any other materials not assigned for the class
- Taking a nap

LECTURE	DATE	TOPIC	Required Reading
1	Jan 18,23	Introduction and an Evolutionary Framework for Biology	Chapter 1
2-3	Jan 25, 30	Life and Chemistry: Small Molecules	Chapter 2
4-5	Feb 1, 6	Life and Chemistry: Macromolecules	Chapter 3
	Feb 13	EXAM-1	
6-8	Feb 8,15	Cells: The Basic Units of Life	Chapter 4
9-10	Feb 20, 22	The Cell Membrane	Chapter 5
11-12	Feb 27, March 1	Energy, Enzymes, and Metabolism	Chapter 6
	March 8	EXAM-2	
13	March 6	Cellular Pathways that Harvest Chemical Energy.	Chapter 7
		Spring break 13-16	
14-15	March 20,22	Cellular Pathways that Harvest Chemical Energy.	Chapter 7
16-17	March 27, 29	Photosynthesis: Energy From the Sun	Chapter 8
	April 3	EXAM-3	
18-20	April 5, 10,12	Chromosomes, the Cell Cycle, and Cell Division	Chapter 9
21-22	April 17,19	Genetics: Mendel and Beyond	Chapter 10
23-24	April 24, 26	DNA and Its Role in Heredity	Chapter 11
	May 1	EXAM-4	
25	May 3	Review	
	May 10	FINAL EXAM	

Student Resources:

1. The Textbook Website – www.thelifewire.com . Use this website for chapter summaries, tutorials, interactive quizzes etc. This material is also available as a CD, available with the textbook.
2. Study Guide (Dzialowski *et al.*) to accompany the textbook – Ask at the University bookstore for a hard copy of the study guide.
3. Read the chapter before and after the each lecture