

**BIOLOGY 1305 GENERAL BIOLOGY
CRN # 21468 FALL 2018**

Lecturer: Dr. Hsini Lin

Lecture Time: T/R 7:30 am to 8:50 am

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Office: Biology Building 214

Office Hours: T/R 9:00 am to 10:00 am. If I am not available in person, e-mail is the best way to contact me.

Course Objectives: This course is designed to introduce the student who is majoring in Science to various core themes in biology. The students will gain a basic understanding of some of the more complex fundamentals of science that will be built upon in later biology courses. Upon completion of this course, I hope you will be able to:

- Demonstrate an understanding of the language of Biology.
- Demonstrate an understanding of the basic concepts of inorganic, organic and biochemistry as they apply to the biological sciences.
- Demonstrate the ability to predict the roles of atoms, molecules, organelles, genetics and environmental factors in regulating metabolism of prokaryotes, animals and plant cells.

Required Materials:

- A good attitude and willingness to work hard
- Access to online course materials on Blackboard
- An e-mail address on record that you check regularly
- 5 green scantrons and a #2 pencil with a good eraser for exams
- *Text Book: Principles of Life* 1st or 2nd Ed. Hillis, Sadava, Heller and Price

General Information: The course is designed for Science majors. The difficulty level of the course will depend largely upon your academic background and academic abilities in general, the majority of the students have to put in a significant amount of time and effort to succeed. You need to be realistic about how much time you will need to devote to this class, and plan your time accordingly.

Exams & Grading: There will be four exams throughout the semester followed by a comprehensive final exam. The four (4) regular exams are worth 80% of your final grade. The 5th exam (comprehensive exam) is worth 20% of your final grade. Grading scale: A=90-100%; B=80-89%; C=70-79%; D=60-69%; F is <60%.

Make-up Policy: Attendance is required on test day. Only verifiable medical or legitimate excuses will be accepted for missing a test; otherwise missed exam will count as zero. Permission for missing a test should be obtained from the instructor (me) prior to your absence where possible. In general, no make-up exams will be given. Please do not wear hats or ear phones during exams. Cell phone must be OFF and in plain sight during exams. ANY use of

your cell phone or any other device during exams is strictly prohibited, and will have severe consequences.

Extra Credits: I occasionally grant extra credit opportunities to the entire class, but there is no extra credit other than that. I do not offer any extra credits on an individual basis.

Midterm Grades: Midterm grades will be e-mailed to Freshman students.

Attendance: Classroom attendance is a necessary part of this course. Your attendance is expected. If you have a serious illness or a legitimate excuse (includes military personnel called to active duty or training) for being out-of-town, make arrangements with me before you leave.

Drop Policy: November 2nd is the last day students may drop with an automatic “W”. The College of Science will remain aligned with the University and not approve any drop requests after that date.

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.

Classroom Norms:

- Be respectful
- Be here on-time
- Be prepared
- Be participating
- No talking during the class time
- Keep phone silent

Academic Integrity Policy: UTEP’s policies regarding academic integrity apply in this course. Information on this policy can be found at <http://academics.utep.edu/Default.aspx?tabid=23785>. Cheating will be reported to the appropriate administrative officer. Failure to take the final exam may result in receiving an F in this course. Incompletes are only given in exceptional circumstances.

Civility Statement: Please be respectful of all students’ right to learn without disruptions. In line with this statement please make an active effort to keep the talking to a minimum during lectures and presentations. Also make an active effort to either turn cell phones off or turn them to vibrate mode prior to the start of class.

Disability Statement: If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.

Course Schedule (Please Note that this schedule is subject to change)

Date		Topic	Required Reading
08/28	T	Introduction	
08/30	R	Chemistry and Energy	Chapter 2
09/04	T	Chemistry and Energy	Chapter 2
09/06	R	Nucleic Acids, Proteins and Enzymes	Chapter 3
09/11	T	Nucleic Acids, Proteins and Enzymes	Chapter 3
09/13	R	Review	
09/18	T	Exam 1	
09/20	R	Cells: The Working Units of Life	Chapter 4
09/25	T	Cells: The Working Units of Life	Chapter 4
09/27	R	Cell Membranes and Signaling	Chapter 5
10/02	T	Cell Membranes and Signaling	Chapter 5
10/04	R	Review	
10/09	T	Exam 2	
10/11	R	Pathways that Harvest, Store Energy	Chapter 6
10/16	T	Pathways that Harvest, Store Energy	Chapter 6
10/18	R	The Cell Cycle and Cell Division	Chapter 7
10/23	T	The Cell Cycle and Cell Division	Chapter 7
10/25	R	Review	
10/30	T	Exam 3	
11/01	R	Inheritance, Genes, and Chromosomes	Chapter 8
11/06	T	Inheritance, Genes, and Chromosomes	Chapter 8
11/08	R	DNA and its Role in Heredity	Chapter 9
11/13	T	DNA and its Role in Heredity	Chapter 9
11/15	R	Review	
11/20	T	Exam 4	
11/22	R	No Class	
11/27	T	From DNA to Protein: Gene Expression	Chapter 10
11/29	R	From DNA to Protein: Gene Expression	Chapter 10
12/04	T	No Class	
12/06	R	Exam 5	

GUIDELINES FOR SUCCESS:

1. Read the textbook actively before and after each lecture. Discuss what you are learning with friends and family. Take the practice exams in your text. Expect to spend at least 3~5 hours/lecture outside of class studying for this class.
2. Access the following recommended websites:
 - Khan Academy: www.khanacademy.org
 - Crash Course at Youtube: www.youtube.com/user/crashcourse (Hank Green - vlogbrothers) Select Biology.
 - Ted Talks: www.ted.com/talks
3. Working in Study Groups and tutoring are highly recommended.