

BIOLOGY 301L: MOLECULES TO ORGANISMS (Non-major course)
Summer, 2011

Instructor: Dr. Zaiming Zhao

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Office hours: Tue, Wed, Thu 10:30am-11:30am

Website: <http://www.sbs.utexas.edu/zhao/bio301L>

Lecture Time: Mon, Tue, Wed, Thu, and Fri 11:30am-1:00pm, (Room: RLM 5.104)

Discussion sections: 90315	MW	1:00pm – 2:00pm	RLM 5.118
90320	MW	2:00pm – 3:00pm	RLM 5.118

Course Descriptions:

Introduction to cell biology, including cell types, cellular organization, physiology, microorganisms as cells and organisms, viruses; molecular biology and genetics, including DNA replication, transcription and translation, gene action, Mendelian genetics, immune processes; organismal biology, including structure, organization, physiology and development of animals (emphasis on human biology) and plants.

Required Text: Biology: Life on Earth, by Audesirk, Audesirk, and Byers(8th ed.)

Recommended supplement:

Study Guide for Biology - Life on Earth (ISBN: 0-13-195769-4)

Exams and Grading:

The exams will cover both lecture material and assigned reading in the text. There will be three one-hour exams given during the regular class time, each of which will count 25% of a student's grade. The final will be a comprehensive exam; this will count 25% of the grade. All exams are multiple choices. Grades will be assigned as follow:

A = 90-100 B = 80-89 C = 70-79 D = 60-69 F = 59 or below

Academic Integrity

Students who violate University rules are subject to disciplinary penalties. Refer to the Student Judicial Services Website <http://deanofstudents.utexas.edu/sjs/>

Scholastic dishonesty will not be tolerated. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. A **UT ID** must be presented in order to turn in any exam. Only those students with written medical excuses (signed by a doctor) will be automatically to make up an exam.

Lectures

Attendance will not be taken in lectures. As my exams will be drawn mainly from the lectures, it is important that you be here. I suggest you exchange phone numbers, so if you miss a class, you can get the notes. You will **always** be responsible for what happens in class, including the announcements, handouts, and academic material.

Discussion Sections

The discussion sections will go over lecture and reading material; each will cover lectures of previous time.

Participation is not mandatory. However, attendance will be taken and your final grade will be raised 2 points for adequate attendance.

For example: 75, 85, 74, and 78

Then, Average = $78 + 2 = 80 \rightarrow B$

Discussion sections start this Wednesday.

Student Accommodation Policy

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Office of Students with Disabilities at (OSD phone# 471 6259, office SSB 4.104 on 100B West Dean Keeton St) as soon as possible and bring the documentation. For more information, visit <http://www.utexas.edu/depts/dos/ssd/>.

Final Exam: Monday, August 15, 2:00–5:00 pm (location to be announced)

No excuses to take the exam early or later will be accepted. If the final exam is missed, an F or an X will be given as the final symbol, depending upon the circumstances.

Summer 2011

BIO 301 L (non-major)

Dr. Z. ZHAO

Dates	lecture topic	Reading
July 11 through July 20	Course introduction Cell structure and function Classification of organisms Bacteria, Virus Protistans Fungi Animals: An introduction (Invertebrates) Animals: An introduction (Vertebrates) Animals: Tissues, organs, and organ system Animals: Digestion and Nutrition Cell biology: Biological chemistry	Chapter 4 Chapter 18 Chapter 19 Chapter 20 Chapter 22 Chapter 23 Chapter 24 Chapter 31 Chapter 34 Chapter 3
July 21(Thu) Exam 1		
July 22 through Aug 1	Animals: Respiration Animals: Circulation Cell biology: Membrane structure and function Cell biology: Aerobic respiration Animals: Immunity Animals: Urinary system Animals: Endocrine system Animals: Reproduction Animals: Development	Chapter 33 Chapter 32 Chapter 5 Chapter 8 Chapter 36 Chapter 35 Chapter 37 Chapter 40 Chapter 41
Aug 2 (Tue) Exam 2		
Aug 3 through Aug 10	Cell biology: Cell reproduction Cell biology: Mendelian genetics Cell biology: Chromosomes and human genetics Cell biology: DNA structure and function Cell biology: RNA and protein synthesis Plants: An introduction Plants: Anatomy and nutrient transport Cell biology: Photosynthesis Plants: Reproduction and development Recombination DNA and genetic engineering	Chapter 11 Chapter12 Chapter12 Chapter 9 Chapter 10 Chapter 21 Chapter 42 Chapter 6 Chapter 43 Chapter 13
Aug 11(Thu) Exam 3		
Aug 12	Review for the Final Exam!	
Final Exam: Monday, Aug 15, 2:00pm-5:00pm (location to be announced)		