

Biosciences I - 1404 - Fall 2009

Tuesday/Thursday 2:00-3:15 p.m. – MB 0.104

Instructor: Dr. Martha Lundell

Office Hours: T/TH 3:30-4:00pm. SB 4.02.52, or by appointment.

Office phone 458-5769

Teaching Assistants: Christin Conkelton, Christine Miller, Divyapryia Raghaven, Kavitha Rao, and Annette Rodriguez

TA office: SB 3.01.39P Office hours posted on door and webpage.

Office phone 458-6567

Text: *Biology (Eighth Edition)* - Neil Campbell and Jane Reece

Several copies of the text and study guide are on 2-hour reserve in the library.

Course WEB Site: <http://webct.utsa.edu>

Prerequisites: None

Course Description: This is an introduction to the science of biology. Topics include biochemistry, cell structure and function, photosynthesis, metabolic respiration, Mendelian genetics and molecular genetics.

Attendance: Attendance at all classes is strongly advised. This course moves quickly, covers a large amount of material and continually builds on previous concepts. All exams will be based on material covered in lecture. Any changes to the schedule will be announced in class. **It is also recommended that students prepare for lecture by reading the assigned chapters in advance.**

Grading:	Recitation	300
	Clicker Questions	60
	Homework	60
	Exam I	70
	Exam II	70
	Exam III	70
	Exam IV	70
	Final Examination	<u>300</u>
		1000

Exams: There will be four midterm examinations and one final examination. Each student will need to purchase 5 ParSCORE Test Forms X-101864 (50 questions on each side). Exams must be taken on scheduled dates. **There are no make-up examinations.** If an exam is missed for any reason, taking $\frac{1}{4}$ of the final exam score will generate a score for the missed exam. Making up a missed score with the final can only occur **once** during the semester; you can only miss one exam, a second missed exam will result in a zero score for the exam that is missed. You are strongly encouraged to take all tests and exams during the course. **All students must take the final exam to pass the course.**

Recitation: The recitation grade will be based on 12 in class assignments and/or quizzes worth 25 points each. **There are no make-up assignments for recitation.** A missed recitation will count as a zero. Out of 13 recitation assignments the lowest score will be dropped. Students must attend the recitation for which they are registered; they cannot receive credit for assignments or quizzes taken in another section.

Homework: The homework grade will be based on 10 assignments worth 6 point each. Out of 11 homework assignments the lowest score will be dropped. Homework assignments will be posted online at 12:00pm on Wednesdays. The assignment must be submitted by Monday at 9:00am. Homework can be resubmit as many times as you wish up until the deadline. The last submission will be scored. Answers will be released after the Monday 9:00am deadline.

Clickers: During the lecture responses will be solicited from the class using electronic “**i-clickers**”. **Only electronic answers will be accepted**, answers written on paper will not be counted. The clickers can be purchased at the bookstore, but make sure you get the appropriate brand “**i-clicker**”. The website for registration is <http://www.iclicker.com/registration>. Please use your 8 digit student ID without the @ sign.

****There are no opportunities for extra credit.****

Policy on student behavior: Students are expected to maintain civil behavior in class and to never interfere with the learning experience of other students. Cell phones and pagers should not be used during class. During exams the test will only be distributed until the first student finishes and leaves the room (don't be late!).

Policy on Cheating: Students are expected to be above reproach in scholastic activities. 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. “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 exam for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.” Regents’ Rules of Regulations, Part one, Chapter VI, section 3, Subsection 3.2 Subdivision 3.22. Since scholastic dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced.

Class Schedule

DATE		TOPIC		Chap.	Homework due date
August	27	TH	Introduction - Chemical Context of Life	1-2	
September	1	T	Water and the Fitness of the Environment	3	
	3	TH	Carbon and Functional Groups	4	1 – 9/7
	8	T	Structure and Function of Macromolecules	5	
	10	TH	Continuation/Review		2 – 9/14
	15	T	Exam I Chapters 1-5		
	17	TH	A Tour of the Cell	6	3 – 9/21
	22	T	Membrane Structure and Function	7	
	24	TH	Introduction to Metabolism	8	4 – 9/28
	29	T	Continuation		
October	1	TH	Cellular Respiration	9	5 – 10/5
	6	T	Photosynthesis	10	
	8	TH	Continuation/Review		6 – 10/12
	13	T	Exam 2 Chapters 1-10 (6% old material)		
	15	TH	Cell Communication	11	7 – 10/19
	20	T	Cell Cycle	12	
	22	TH	Meiosis and Sexual Life Cycles	13	8 – 10/26
	27	T	Mendel and the Gene Idea	14	
	29	TH	Chromosomal Basis of Inheritance	15	9 – 11/2
November	3	T	Continuation/Review		
	5	TH	Exam 3 Chapters 1-15 (12% old material)		
	10	T	Molecular Basis of Inheritance	16	
	12	TH	From Gene to Protein	17	10 – 11/16
	17	T	Regulation of Gene Expression	18	
	19	TH	Viruses	19	11 – 11/23
	24	T	Continuation/Review		
	26	TH	THANKSGIVING		
December	1	T	Exam 4 Chapters 1-19 (18% old material)		
	3	TH	Course Review		
	10	TH	FINAL 10:30am Chapters 1-19		

Drop Deadlines

September 2nd - Last day to drop and receive no grade.

October 29th - Last day for sophomore and above to drop and receive a grade of "W"

December 2nd - Last day for freshman to drop and receive a grade of "W"