BI 101 General Biology I – Spring 2011
Tripler Army Medical Center
Mon/Wed 1730-2140
4/4/2011 - 6/13/2011

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LECTURE COURSE OUTLINE AND SYLLABUS

REQUIRED TEXT:

Audesirk, Audesirk and Byers. BIOLOGY – LIFE ON EARTH . 9th Edition (2011). Pearson Education (Benjamin Cummings Publishing).

COURSE DESCRIPTION:

Overview of basic biological principals, human concerns of overpopulation, environmental pollution, and genetic engineering. Concurrent registration in BI 101L required.

COURSE OBJECTIVES: Upon completion of this course, each student should…

1.) Understand the basic biology of life, including fundamental cell biology and evolution on both the macro- and micro- scale.
2.) Recognize the importance of the scientific method and its role in the quest for knowledge.
3.) Become familiar with the fundamental biomolecules and processes of life.
4.) To promote an appreciation for the complexity of the living systems surrounding us.

LECTURES:

Lecture topics as well as reading assignments and exams are listed in the course outline (below). Great care has gone into preparing this course and the accompanying lecture schedule. However, the timeline is subject to change if deemed necessary by the instructor.

ACADEMIC HONESTY:

All university policies regarding academic integrity are in effect and are strictly enforced. These can be viewed at (http://www.chaminade.edu/student_life/documents/student_handbook.pdf).

GRADE DETERMINATIONS:

There are separate grades and grading criteria for BI 101 (3 credits) and BI 101L (1 credit).

Categroy	Amount (#)	Points/assignment	Total Points	% of Final Grade
Homework	9	10	90	26%
Midterm Exam	3	50	150	43%
Final Exam	1	100	100	29%
Participation	1	10	10	2%

All assignments are due at the beginning of class on the indicated day. Exams, including the final must be taken during the scheduled time. Only absences with proper support documentation will be considered.

No make-up homework or exams will be administered. A missed assignment/exam will result in a score of zero. The lowest of the nine homework scores as well the lowest of the three mid-term exam scores will be excluded from the final grade determination (the final exam cannot be dropped). No extra credit is available. Although BI 101L is a separate grade it is a co-requisite of BI 101. A failing grade in lab will result in an Incomplete/Fail in BI 101 lecture. More than two (2) unexcused laboratory absences will count as a fail (see lab syllabus).

Final Grades will be (tentatively) assigned as follows:

A: 90-100%
B: 80-89%
C: 70-79%
D: 60-69%
F: 0-59%

ATTENDANCE:

Attendance is compulsory. You must be in class to receive the homework assignment. Homework assignments will only be accepted at the beginning of class 1 week after they are assigned. Late assignments will not be accepted. A missed exam will result in a score of zero, no makeup exams will be administered (see grade determination).

OFFICE HOURS:

Office hours are by appointment only. Time/place arrangements are best made via email. I have provided my cell phone for emergencies, please **do not** call outside business hours (9:00am-6:00pm).

General Biology I – BI 101
Spring 2011 - Tentative Course Schedule

Date	Topic	Reading
Week 1		
M-April 4	Introduction to Life	Chapter 1
	Atom, Molecule & Life	Chapter 2
W-April 6	*Lab #1- Scientific Method and Writing*	
Week 2		
M-April 11	Biological Molecules	Chapter 3
	Energy Flow in Cells	Chapter 4
W-April 13	**EXAM I**	**Ch. 1-4**
Su- April 17	*Lab #2 – Field Trip (Honolulu Zoo)*	*1:00pm*
Week 3		
M-April 18	Cell Membranes	Chapter 5
	Cell Structure and Function	Chapter 6
W-April 20	*Lab #3- Photosynthesis (On Campus)*	*(Cham. Uni.)*
Week 4		
M-April 25	Photosynthesis	Chapter 7
	Glycolysis & Cellular Respiration	Chapter 8
W-April 27	**EXAM II**	**Ch. 5-8**
Su- May 1	*Lab #4 – Field Trip (Foster Botanical Garden)*	*1:00pm*
Week 5		
M-May 2	DNA	Chapter 9
	Gene Expression & Regulation	Chapter 10

W-May 4	*Lab #5- DNA (On Campus)*	*(Cham. Uni.)*
Week 6		
M-May 9	Cellular Reproduction	Chapter 11
	Patterns of Inheritance	Chapter 12
W-May 11	**EXAM III**	**Ch. 9-12**
Su- May 15	*Lab #6 – Field Trip (Waikiki Aquarium)*	*1:00pm*
Week 7		
M-May 16	Biotechnology	Chapter 13
W-May 18	*Lab #7- Chemical Analysis of Food*	
Week 8		
M-May 23	Principals of Evolution	Chapter 14
	How Populations Evolve	Chapter 15
W- May 25	*Lab #8 – Evolution and Population Genetics*	
Week 9		
M-May 30	Memorial Day	(No Class)
W-June 1	*Lab #9- Charles Darwin*	
Week 10		
M-June 6	Origin of Species	Chapter 16
	The History of Life	Chapter 17
W-June 8	*Lab #10- TBA*	
Week 11		
M-June 13	**Final Exam**	**Cumulative**

**Last day to drop a class is April 11th, 2011*
***Last day to withdrawl (W) from a class is May 23rd, 2011.*