WF '03

COURSE: BI 101-General Biology (Lecture)
TIME: 1645-1850 M & W (Jan. 13, - Mar. 26, 2003)
INSTRUCTOR: Dr. Alan Ohta,
email: aohta@chaminade.edu
OFFICE HRS: 1545 -1645 M or by appointment
TEXT: *Biology Life on Earth*, 6th ed. by Teresa Audesirk, Gerald Audesirk & Bruce E. Byers, Prentice Hall, 2000.

COURSE DESCRIPTION: This course is designed to introduce the Biological Sciences. Thus we will begin with the structure and function of the cell, the basic unit of all life. To be followed by the basis of heredity also common to all life forms. Finally we will investigate how all organisms change & adapt in order to survive.

OBJECTIVES:
1. to provide a sound background of biological systems (function & structure).
2. to promote an appreciation for the complexity of living organisms.
3. to promote critical thinking in applying concepts.
4. to promote an appreciation for all organisms & their common bonds to one another.

LECTURES:
1. Lecture topics and text assignments are listed in the course outline.
2. Examination dates are also listed in the course outline.
3. The instructor reserves the right to add, omit, or change the materials as he sees fit.

EXAMS, QUIZZES & GRADES:
1. All exams & quizzes are "open book & notes" & will consist of short essay questions. You will be graded on your ability not only to answer the question (some can be answered in several ways), but also in how effectively you can defend your answer/position using your knowledge of the subject & applying what you learned through the use of appropriate facts/examples. Thus all questions asking for your opinion or position, whether stated or not have an implied "Why?" or "How?" question attached.
2. Any exams and/or quizzes missed cannot be made up without a valid excuse.
3. Grades will be based on the following system & scale:

Grade Scale:		Grading System:	
90% & above	= A	Quizzes	30%
80 - 89%	= B	Mid Term	30%
65 - 79%	= C	Final	40%
50 - 64%	= D		
49% & below	= F		

COURSE OUTLINE:

01/13/2003	Introduction to Life (Chap. 1)
01/15	Atom, Molecules, & Life (Chap. 2)
01/20	Holiday: Martin Luther King Day
01/22	Biological Molecules (Chap. 3)
01/27	Energy Flow in Cells (Chap. 4)
01/29	Double labs on Chaminade Campus
02/03	Cell Membrane & Cell Structure & Function (Chap. 5 & 6)
02/05	Photosynthesis (Chap. 7)
02/10	Glycolysis & Cellular Respiration (Chap. 8)
02/12	Double labs on Chaminade Campus
02/17	Holiday: President's Day
02/19	Midterm Exam
02/24	DNA & Gene Expression & Regulation (Chap. 9 & 10)
02/26	Cellular Reproduction (Chap. 11)
03/03	Cellular Reproduction (con't)
03/05	Patterns of Inheritance (Chap. 12)
03/10	Patterns of Inheritance (con't)
03/12	Biotechnology (Chap. 13)
03/17	Principles of Evolution (Chap. 14 &15)
03/19	Principles of Evolution (con't)
03/24	Origin of Species (Chap. 16 & 17)
03/26	Final Exam