Fall 9-1-2001

BIOL 100.01: The Science of Life

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BIO 100 – The Science of Life
Course Syllabus and Lecture Outline
M - W 11:10 -12:00 pm
Fall 2001

Instructor: Dr. Kevin Murray
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Required texts:
Lecture: *Biology: concepts & connections*. By Campbell et al., 3rd edition. 2000.
Laboratory: *BIOL 100 Laboratory Guide.* Compiled by Kevin Murray. FAC-PAC

Grading:
In lecture there will be 3 regular session exams and a final exam; the final is partly comprehensive. Exams are objective (true/false, multiple choice. Each regular session exam will be worth approximately 75 points; the final comes in at around 100 points. SCANTRONS (50 responses, single column) are required for the lecture exams.

Your grade in this course can be modified (either up or down) by classroom attendance and participation and is a composite of your lecture and laboratory scores and performance. Laboratory instructors will explain grading procedures and student obligations in the laboratory segment of the course.

General Course Content:
Biology is a very broad area of study. In this course we will examine issues ranging from the chemical nature of living things to how living things stay alive and how organisms evolve and live together in the biosphere. Lecture and laboratory components of the course are required for a full understanding of many of the issues covered. A primary objective of this course is to help you better understand some of the interesting features of the world around you and to help you make better informed decisions about issues with a biological component.

BIO 100 Lecture Outline

Date	Lecture Topic	Text Reference Modules
06 Sep	Course intro; What is life?	1.1, 1.4-.5
11 Sep	Chemical basis of life	2.1-.3; 2.7-.16
13 Sep	Molecules of cells	3.4-.20
18 Sep	A tour of the cell	4.4-.12
20 Sep	A tour of the cell	4.15-.18
25 Sep	The working cell	5.1, 5.3-.4
27 Sep	The working cell	5.5-.9
02 Oct	**Exam I**	
04 Oct	Intro to respiration & photosynthesis	
09 Oct	Cellular respiration	6.1-.3
11 Oct	Cellular respiration	6.8-.13
16 Oct	Photosynthesis	7.1-.5
18 Oct	Photosynthesis	7.6-.10
23 Oct	Global cycling of CO_2	7.13
25 Oct	**Exam II**	
30 Oct	DNA structure & function	
01 Nov	DNA structure & function	
06 Nov	Early earth & origins of life	16.1-.28
08 Nov	Tracing evolutionary history	15.0 -.5
13 Nov	Evolution by natural selection	see chapters 13-14
15 Nov	Evolution by natural selection	see chapters 13-14
20 Nov	**Exam III**	
22 Nov	**no class; Thanksgiving holiday**	
27 Nov	Human evolution	chapter 19
29 Nov	Ecology	34.1-.6
04 Dec	Ecology	34.7-.18
06 Dec	Ecology	35.1-.10
11 Dec	Conservation biology	36.8-.20
13 Dec	Course synopsis	
	Final Exam	