

**BIOL 1107 D, E, F - PRINCIPLES OF BIOLOGY 1 - FALL 2011
SYLLABUS & COURSE POLICIES**

Lecture: Bailey Science Center (BSC) 1023 (M, W, F, 10:00-10:50 a.m.)

Laboratory: All laboratory sections meet in BSC 1083

Section D meets Thurs. 9:30 - 12:20

Section E meets Thurs. 1:00 - 3:50

Section F meets Friday 11:30- 2:20

Instructor: Dr. Mark Blackmore

Office: Biology Annex, Room 1

Office Hours: M, W 12:00-12:45 or by appointment

Contact information

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7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written and visual materials.
8. Students will demonstrate knowledge of principles of ethics and their employment in the analysis and resolution of moral problems.

Department of Biology Educational Outcomes (BEO)

1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in both written and oral format used in peer-reviewed journals and at scientific meetings.
2. Describe the evolutionary process responsible for biological diversity, explain the phylogenetic relationships among the other taxa of life, and provide illustrative examples.
3. Demonstrate an understanding of the cellular basis of life.
4. Relate the structure and function of DNA/RNA to the

beginning of the semester.

Tentative* Lecture Schedule Fall Semester 2011

Week	Dates	Topics	Assigned Reading
1	Aug 15 10	Introduction to Biology; Chemistry of Life	
2	Aug 22 26	Chemistry of Life; Protein, Carbohydrates, Lipids	
3	Aug 29 Sept 2	Nucleic Acids; Cells	
4	Sept 5 9	No class Monday (Labor Day); Exam 1 Sept 7 (Ch 1-4); Cells	
5	Sept 12 16	Cells; Cell Membranes	Ch 5, 6
6	Sept 19 23	Cell Cycle & Cell Division in part (Ch 11.1, 11.2, 11.3, 11.6 & 11. 7)	Ch 11 pt
7	Sept 26 30	Cell Signaling & Communication; Exam 2 Sept 30 (Ch 5-7; 11 pt)	Ch 7
8	Oct 3 7	Energy, Enzymes & Metabolism	Ch 8
9			
10			
11			
12			

FALL 2011- Tentative Laboratory Schedule, BIOL 1107 D, E, F

LABORATORY EXERCISES:

Lab	Days:	Topic:	Due Dates
1	August 18-19	Laboratory Introduction Ex. 1 Introduction to the Use of the Scientific Method	
2	August 25-26	Ex. 2 Basics of the Light Microscope.	
3	September 1-2	Ex. 3 Observation of Living Cells with Light Microscopy	
4	September 8-9	Ex. 4 Independent Group Microscope Project: Proposal	
5	September 15-16	Ex. 4 Independent Group Microscopy Project: Data collection lab (<i>Lab assignment 1</i>)	Assignment 1 due next Monday by 3:00 pm
6	September 22-23	Ex. 5 Cellular Water Relations	
7	September 29-30	Ex. 6 Protein extraction & quantification	
8	October 6-7	Ex. 7 Enzymology: -amylase activity	
9	October 13-14	Ex. 8 Enzymology: Investigation of the effects of temperature on enzyme activity (<i>Lab assignment 2</i>)	Assignment 2 due next Monday by 3:00 pm
--	October 20-21	Ex. 9 Photosynthesis	
10	October 27-28	Fall Break (Mon & Tue) – no labs this week	
11	November 3-4	Ex. 10 Cell reproduction: Mitosis, Meiosis, & Cytokinesis	
12	November 10-11	DNA fingerprinting & Ex. 12 PCR-Based VNTR Human DNA Typing	
13	November 17-18	Ex. 13 Genetically Modified Organisms part 1	
--	November 24-25	Thanksgiving Holiday	
14	December 1-2	Ex. 13 GMO part 2	<i>Notebooks graded in lab</i>