

General Education Biology Lab

BSC1005L

Spring Term 2008

Professor:.....Mario A. Alvarado

Schedule:.....Tue. from 7:05 PM to 8:45 PM (room G-314)

Office Hours:.....Wed. from 6:00 PM to 7:00 PM (room B-130)

E-mail:..... Mario.Alvarado@mdc.edu

REQUIRED TEXTBOOK

Miami Dade College. 2007. **Symbiosis, the Benjamin Cummings custom laboratory program for the biological sciences.** Benjamin Cummings, Pearson Custom Publishing, Boston, MA [ISBN 10 0-5364-0875-0]

COURSE DESCRIPTION:

This course provides a basic understanding of the biological systems and developing of primary skills required at the laboratory settings. The goal of this optional one-credit lab is to provide students with experience in the scientific process. (2 hr. lab)

CREDIT HOURS: 1 credit

PREREQUISITE: None

CO-REQUISITES: None

ATTENDANCE:

Attendance plays an important role in your final grade (see Evaluation and Grades section) and will be recorded for each lab session. Students are required to arrive on time and to leave when the lab is dismissed; otherwise they will be considered as absent. Late arrivals or early departures will be allowed only during **extreme** circumstances and proper justification and/or documentation will be requested.

MAKE-UP REPORTS, QUIZZES OR EXAMS:

Students will be allowed to make up quizzes or exams only when the instructor determines that it was a legitimate reason. Under such circumstances, the student should expect a completely different set of questions with higher degree of difficulty than those taken for the rest of the class. This because students making-up tests have more time to prepare for such evaluation than those students taking the test on time.

EVALUATION AND GRADES

Task	Number	Points/task	Total Points
Attendance	17	5	85
Quizzes	11	5	55
Lab Reports	12	10	120
Final Exam	1	50	50
Total Points			310

Any student caught cheating during a test, will automatically lose all the points assigned for that particular test. If such situation repeats, the student will receive and F for the final grade. The use of plagiarism in any lab report will not be tolerated and is consider as a form of cheating. Signing the attendance sheet for a person other than you will be also considered as a cheating act.

GRADING SCALE:

A = 90 -100%
B = 78 -89.9%
C = 65 -77.9%
D = 55 -64.9%
F = 0 -54.9%

Date	Contents	Reports
Tue. Jan 9, 2007	Course Introduction and Safety Rules for the Lab (pages 1-12)	
Tue. Jan 15, 2007	Lab #1: Biological Macromolecules: Chemical Analysis of Biological Substances (pages 13-18)	
Tue. Jan 22, 2007	Lab #2: The Microscope (pages 29-39) Quiz #1	Lab Report #1
Tue. Jan 29, 2007	Lab #3: Cell Anatomy: Eukaryotic cells (pages 41-48) Quiz #2	Lab Report #2
Tue. Feb 5, 2007	Lab #4: Diffusion, Osmosis, Plant cells, and Tonicity (pages 19-28) Quiz #3	Lab Report #3
Tue. Feb 12, 2007	Lab #5: Photosynthesis (pages 49-58) Quiz #4	Lab Report #4
Tue. Feb 19, 2007	Lab #6: Cell Division: Mitosis in Plant Cells and Whitefish (pages 59-73) Quiz #5	Lab Report #5
Tue. Feb 26, 2007	Lab #7: Genetics (pages 75-84) Quiz #6	Lab Report #6
Tue. Mar 4, 2007	Lab #8: Genetics (continued) (pages 85-95) Quiz #7	Lab Report #7
Tue. Mar 11, 2007	Lab #9: Survey of the Plant Kingdom (pages 155-166) Quiz #8	Lab Report #8
Tue. Mar 18, 2007	Lab #10: Survey of the Animal Kingdom: Phylum Arthropoda (pages 109-122) Quiz #9	Lab Report #9
Tue. Mar 25, 2007	Lab #11: Ecology: Greenhouse Effect and Mutualism (pages 123-132) Quiz #10	Lab Report #10
Tue. Apr 1, 2007	Lab #12: Introduction to the Human Body: Human Senses (pages 143-153) Quiz #11	Lab Report #11
Tue. Apr 8, 2007	Final Test	Lab Report #12