

BSC 1010L

BIOLOGY LABORATORY

Instructor: Dr. Brannan

Office: BSCI # 207C

Phone: 253-7923

Email: gbrannan@hccfl.edu

The purpose of this lab class is to provide the student with a working knowledge of various types of life and their characteristics. The student will gain hands-on experience of the world of Biology. Topics include cells, metabolism, mitosis, chemistry of life, respiration, photosynthesis, genetics, and DNA.

TEXT: *Biology Laboratory Manual: For BSC 1010L and BSC 1011L* by Ehringer et. al.

The textbook *Biology* by Campbell and Reese, can be used in some of the laboratory exercises as a source for additional study materials. Other instructional material will be supplied, as required.

No make-ups are allowed for lab work.

The lab grading scale is as follows:

100% - 90 = A

89% - 80 = B

79% - 70 = C

69% - 60 = D

If a lab class is missed the quiz may be taken before the next lab class.

The lab grade is based upon the accumulative total of the exercises and quizzes.

One quiz grade will be dropped. It will be the lowest scored quiz.

Late lab work will not be accepted after 3 weeks after due date.

Maintenance: The student will be expected to keep the lab clean. Dissecting instruments should be washed, tables wiped clean, and any other equipment should be cleaned. All chemicals should be put back in their proper spot.

Withdrawal Date: March 26th, 2012

SYLLABUS

<u>DATE/WEEK OF</u>	<u>CONTENT</u>	<u>EXERCISE</u>
January 9	Introduction	
January 23	Scientific Method	1
January 30	Biologically Important Molecules	2
February 6	The Molecules of Life	3
February 13	Digestion and Enzyme Action on Macromolecule	4
February 27	The Compound Light Microscope	5
March 5	The Basic Unit of Life: The Cell and its Variations	6
March 12	Cellular Membranes	7
March 26	Photosynthesis-An Energy Capturing Metabolic Pathway	9
April 2	Cell Division	10
April 9	Genetics Lab - The Hardy-Weinberg Law	11
April 16	DNA Extraction	12
April 23	DNA Electrophoresis	Handout
April 30	Finish Electrophoresis	