

**BIOL 1107 Laboratory, Section R
Fall Semester 2012**

Laboratory BC 1085: Tuesday 2:00 pm-4:50 pm

Instructor: Dr. Cristina Calestani
Office: BC 2085
Phone: (229) 333-7175
Email: ccalestani@valdosta.edu

Office hours:

Tuesday 10 am-12:15 pm
Wednesday 4:45 pm- 5:30 pm
Or by appointment (please send me an email to my valdosta.edu account with “appointment” in the subject line).

Required Text

R.H. Goddard. 2011. Methods and Investigations in Basic Biology. Fifth Edition. Hayden-McNeil Publishing, Plymouth, MI.

ASSESSMENTS

Lab quizzes. There will be a 9 point quiz during the first 15 minutes of each lab session (except for the first day of class). The quizzes will be based on material from the previous labs (7 pt) and the current lab (2 pt). Quizzes are open notebook, but the lab manual cannot be used.

Lab Assignments. Each assignment is worth 50 points. Information for each assignment will be provided during the lab.

Lab Notebook. Students are required to keep a lab notebook in a ½” 3-ring binder. The lab notebook will be used during the weekly lab quiz, and will be turned-in the last day of lab to be graded. Your notebook grade will be based on completeness, accuracy, and order. More information can be found in the lab manual.

GRADES

The laboratory grade is 25% of the final grade for the BIOL1107 course.

Quizzes (13): 9 points each (117 points total)
Lab Assignments (2): 50 points each (100 total)
Lab Notebook: 50 points

Total laboratory points: 267
Extra-credits: 8 points max.

Laboratory grade calculation: (Quizzes+ Assignments + Lab notebook + Extra-Credits)/267

Tentative Laboratory Schedule, BIOL 1107, section R FALL 2012

LABORATORY EXERCISES:

Lab	Day:	Topic:	Due Dates
1	Aug 14	Laboratory Introduction Ex. 1 Introduction to the Use of the Scientific Method	
2	Aug 21	Ex. 2 Basic Light Microscopy	
3	Aug 28	Ex. 3 Observation of Living Cells with Light Microscopy	
--	Sept 4	Labor Day week-no lab	
4	Sept 11	Ex. 4 Independent Group Microscope Project: Proposal and Data collection (<i>Lab assignment 1</i>)	
5	Sept 18	Ex. 5 Cellular Water Relations	Assignment 1 due
6	Sept 25	Ex. 6 Protein extraction & quantification	
7	Oct 2	Ex. 7 Enzymology: -amylase activity	
8	Oct 9	Ex. 8 Enzymology: Investigation of the effects of temperature and pH on enzyme activity (<i>Lab assignment 2</i>)	
--	Oct 16	Fall Break – no lab	
9	Oct 23	Ex. 9 Photosynthesis	Assignment 2 due
10	Oct 30	Ex. 10 Cell reproduction: Mitosis, Meiosis, & Cytokinesis	
11	Nov 6	DNA fingerprinting & Ex. 12 PCR-Based VNTR Human DNA Typing	
12	Nov 13	Ex. 13 Genetically Modified Organisms part 1	
--	Nov 20	Thanksgiving Holiday week-no lab	
14	Nov 27	Ex. 13 Genetically Modified Organisms part 2	Turn-in Notebooks