

General Biology Lab Summer 2009
BI 111-01 and BI113-01

June 29-July 16 M T W TH, 12:00-2:00 p.m.

July 20-Aug 6, M T W TH, 12:00-2:00 p.m.

The purpose of this lab is to provide first-hand experience with scientific reasoning and methodology, as well as experimental procedures, data collecting, analysis and interpretation of results. When it is possible, I will try to make lab experiments related to lecture topics covered in General Biology.

Requirements

You are required to attend all classes. Because of the nature of setting up and preparing the class laboratory, the labs cannot be made up. If you cannot make the class, you need a letter from the dean.

You are required to maintain a laboratory notebook. The notebook will be checked every week on Monday and you will turn them in on last day of class for a final notebook check. Please see notebook guidelines for what is required in a laboratory notebook and how they will be graded.

There will be one laboratory report due for each semester. A draft of the laboratory report must be submitted to receive full credit on the laboratory report. Lab report drafts that are late will lose 5 point/day until they are turned in. **No Late Lab Reports will be accepted.**

There will be a practical on the last day of classes. The practical will consist of several stations in which you will have to apply the knowledge that you have acquired during the semester. It will be cumulative of all the experiments that you have performed during the semester.

Field Trips

Please note that there will be few field trips throughout the course. The first field trip will be during the first semester to the Harvard Museum of Natural History (HMNH). The second semester will consist of field trips to Cabot Woods, near the Newton Law Campus. For these field trips, we would need to coordinate transportation. This will be discussed further as we near the dates of the field trips. Please also be aware the admission to the HMNH (\$7.00 for students with ID or \$9.00) is not included in the course tuition.

Grades

- Notebook- Total 70 points
 - 20 points each-Monday Check
 - 30 points- Final Check
- Lab report-Total 100 points
 - 25 points- Draft
 - 75 points- Final Report
- Practical- Total 100 points
- Participation and attendance-30 points

- Total points for the semester- 300 points

General Biology Lab Schedule

BI 11101 General Biology Lab I

Day	Date	Lab	Assignments
Mon	6/29	Properties of water	
Tue	6/30	Microscopy	
Wed	7/1	Photosynthesis	Collect Data for Lab Report
Thur	7/2	Mitosis and Meiosis	
Mon	7/6	Digest DNA	
Tue	7/7	Gel Electrophoresis	
Wed	7/8	Population Genetics	
Thur	7/9	Cladistics	Lab Report Draft Due
Mon	7/13	Gram Staining	
Tue	7/14	Field Trip To HMNH	
Wed	7/15	Skeleton Observation	
Thur	7/16	Lab Practical	Lab report due

BI11301 General Biology Lab II

Day	Date	Lab	Assignments
Mon	7/20	Reflexes and senses	Collect data for Lab Report
Tue	7/21	Homeostasis	
Wed	7/22	Blood Pressure Lab	
Thu	7/23	Amylase Digestion	
Mon	7/27	ELISA	Lab Report Draft due
Tue	7/28	Using Keys	
Wed	7/29	Transpiration	
Thu	7/30	Flower Identification	
Mon	8/3	Community ecology	
Tue	8/4	Field observations	
Wed	8/5	Field observations	Lab Report Due
Thu	8/6	Lab practical	