

Biology 1403L - Diversity of the Living World Laboratory Syllabus

Georgia Perimeter College - Dunwoody Campus

Term: Summer Section #: 245

Instructor

Name: Houng Park Phone: 770-714-7454

Office: _____ Office Hours: 2:30PM- 4:30PM Tuesday and Thursday

E-mail / web page: hpark@gpc.edu

Class meeting location: Room NE-1300; **Class meeting day and time:** 11:30AM to 2:30PM T and TR

Prerequisite: Exit or exemption from Developmental Studies English, Reading, and ESL.

Corequisite: BIOL 1403 Lecture. You must be registered for **both** lab and lecture **at the same time**. Withdrawal from either lecture or lab will result in automatic withdrawal from both. It is strongly suggested that you take lecture and lab on the same campus and on the same schedule (half term or full term). Lab topics **on this campus** follow the order of lecture topics **on this campus**. If you take lecture on a different campus, topics may be covered in a different order.

Course description: This course provides the student with hands-on experience with a variety of living and preserved organisms, including animals, plants, fungi, protozoa, algae, and bacteria, and the principles of evolution and ecology that unite them. This course is designed for non-science majors.

Course objectives: As a consequence of completing this course, the student will be able to:

1. To allow students to develop laboratory skills and techniques; to read and follow directions; and to perform experiments requiring analysis and interpretation of data, as well as written discussion of the results.
2. Identify and describe the distinguishing features of each of the kingdoms, and the major groups within each kingdom.
3. Identify particular specimens as members of the kingdoms and their subgroups.
4. State the major premises of the theory of evolution by natural selection, and identify and explain examples of evidence for the theory.
5. Relate the characteristics of living organisms and preserved specimens to life processes.
6. Collect, analyze, and use data to describe the interactions among organisms and their environments.

Required text: Mader, Sylvia S. 2007. Biology 1403 – Selected Labs from Biology Laboratory Manual - 9th ed.

Grade determination: The final letter grade will be determined in the following manner:

			Total points	Percent	Grade
Test I	100 pts				
Test II	100 pts		270 - 300	90 - 100 %	A
2 Lab reports	60 pts	(30pts. ea.)	240 - 269	80 - 89 %	B
Drawings	15 pts		210 - 239	70 - 79 %	C
Instructor option	<u>25 pts</u>		180 - 209	60 - 69 %	D
Total	300 pts		< 180	<60 %	F

Test I and II will be practical format and will include identification and short answer questions. Test I will cover material through the midpoint of the semester. Test II will cover material from the midpoint through the end of the semester. Test II will not be comprehensive.

Lab reports should be written in the scientific paper format. Students should consult "Instructions for biology lab reports" at the end of the syllabus or those provided by the instructor. All students will write two lab reports on the exercises specified by the instructor. Lab reports will be due on the date assigned by the instructor. **Late reports may be penalized or not accepted according to the instructor's policy.**

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