

Biology 1040 Organismal Biology Lab
Spring Semester 2014
Biology Department, College of Arts and Sciences
Valdosta State University

Instructor: Ms. Simone Thompson

Office: Science Building 1209

Office Hours: T 11:00 am ó 12:00 pm or by appointment

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Room: Science Building 1046

Midterm: March 6, 2014. This is the last day to drop this course and receive a withdrawal grade (W).

Credit Hours: 1

Course Description:

Bio 1040L Organismal Biology Lab

Co-requisite: **Bio 1030.** This course cannot be taken for credit toward the major in biology. A laboratory course to accompany Bio 1030 lecture, emphasizing the structure of multicellular organisms.

Course Objectives: This course is designed to accompany Bio 1030 by presenting exercises that emphasize the processes involved in the development and maintenance of multicellular organisms. The objective of this course is to provide students with a hands-on experience in general biology. Students will participate in the process of scientific inquiry by asking scientific questions, developing hypotheses, predicting outcomes of experiments, collecting and interpreting data and drawing conclusions from the results.

Learning Goal: Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.

Materials: The lab manual and text are mandatory.

Lab Manual: Biology 1040L Organismal Biology Lab by Teresa H. Doscher

It can be purchased at the VSU Bookstore. It is a loose leaf, 3 hole punched manual so you will need to put it in a small 3 ring binder along with some extra loose leaf paper for taking notes.

This class will also use the following text. The text is available free online, in a variety of formats, and a print version or mobile app are available to purchase.

Grading: Your final grade will be determined by laboratory quizzes, laboratory reports, homework assignments and daily participation grades. You will be told at the end of each lab what you will be responsible for the next lab period; whether it be a quiz or homework to turn in. **Quizzes are given at the beginning of each lab. If you are late to class or miss the class, you will not be able to make up the quiz.**

The lowest score on a quiz given in a class completely, you are responsible for the material covered that class period and you must be prepared for the quiz the following class period.

I will not accept assignments or a lab report from a class that you did not attend. I will not accept any late assignments either. You will receive a daily participation grade. Therefore, if you are not present you will receive a zero grade for the day.

Final Grades: Final grades are based on the following cumulative point totals:

90 or 100% = A 80 or 89.99% = B 70 or 79.99% = C 60 or 69.99% = D Below 60% = F

Biology 1040 Lab Schedule Fall 2014

*This is a tentative schedule subject to change at the instructors discretion.

| Week | Date | Lab Exercise | Pages |
|------|-------------------|--|--------------------|
| 1 | August 25 - 28 | Syllabi / Laboratory Safety Guidelines Exercise 3: Photosynthesis | 17 - 20 |
| 2 | Sept. 1 - 4 | Labor Day Holiday - No labs this week | |
| 3 | Sept. 8 - 11 | Exercise 1: Biological Macromolecules | 1 - 6 |
| 4 | Sept. 15 - 18 | Exercise 2: Osmosis and Diffusion | 7 - 16 |
| 5 | Sept. 22 - 25 | Exercise 4: Plant Physiology and Nutrition (begin experiments) | 21 - 26 |
| 6 | Sept. 29 - Oct. 2 | Exercise 5: Deoxyribonucleic Acid Isolation and Gel Electrophoresis Exercise 4: Plant Physiology and Nutrition (record data) | 27 - 30 21 - 26 |
| 7 | Oct. 6 - 9 | Exercise 5: Deoxyribonucleic Acid Isolation and Gel Electrophoresis <i>continued</i> Exercise 4: Plant Physiology and Nutrition (record data) | 27 - 30 21 - 26 |
| 8 | Oct. 13 - 16 | Exercise 4: Plant Physiology and Nutrition (finish experiments) | 21 - 26 |
| 9 | Oct. 20 - 23 | Exercise 6: Our Senses and Reflexes | 31 - 36 |
| 10 | Oct. 27 - 30 | Exercise 7 - Metabolism and Fermentation | 37 - 42 |
| 11 | Nov. 3 - 6 | Exercise 8: Microscopy | 43 - 46 |
| 12 | Nov. 10 - 13 | | |

Bio 1040 Organismal Lab - Fall 2014 - Room BC 1046

Monday

Tuesday

Wednesday

Thursday

Friday

