

**Biology 1040 Organismal Biology Lab**  
**Fall Semester 2012**  
**Biology Department, College of Arts and Sciences**  
**Valdosta State University**

**Instructor:** Joshua E. Boston

**Office:** Science Building 1218

**Office Hours:** Thursday 2-5pm or by appointment

**Phone:** Office 333-5769, B Tf -2(TIo-11(s:))TJ /TT1 1 Tf 5H>-5(m. Mf -7.009 OOp OT1 fO)7(f-41(i)6nc)-2(e)-2(JTJ 3

**Room:** Science Building 1046

**Midterm:** October 4, 2012. 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:** Biol 1040L Lab Manual, 8/e – “Organismal Biology” authored by VSU Department of Biology Faculty.

**Attendance:** Attendance in lab is mandatory. **If you do not attend your regular lab section, you must arrange to make-up the lab before the end of the week. This must be in the week the lab is scheduled. As per**

**Lab Make-up Policy:** The privilege of making up a lab is not guaranteed. A lab exercise **MAY ONLY BE MADE UP DURING THE WEEK IT IS SCHEDULED.** Students with lab scheduled late in the week must be especially cautious since the number of subsequent labs for the week may be few. Prior to attending another lab, **the student is responsible for obtaining written permission from BOTH his/her instructor and the other lab instructor. It is possible that the other instructor’s lab is full and you will not be able to attend that lab.** If this procedure is not followed, the student will be turned away from the other lab. The student should remind the other lab instructor to give a note to his/her instructor verifying the student’s attendance. The instructor will determine validity of excuses. **ONLY ONE (1) MAKE UP WILL BE ALLOWED PER SEMESTER.**

**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

The lowest quiz or assignment grade will be dropped when calculating the student's final grade. If you miss the

## Biology 1040 Lab Schedule – Fall 2012

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

| <b>Week</b> | <b>Date</b>  | <b>Lab Exercise</b>  | <b>Pages</b> |
|-------------|--------------|--|--------------|
| 1           | Aug 20 - 23  | Syllabi / Laboratory Safety Guidelines<br>Exercise 3: Carbon Compounds<br><i>Web: Lab Safety</i>   | 19 - 25      |
| 2           | Aug 27 -30   | Exercise 5: Osmosis and Diffusion<br><i>Web: Isotonic Solutions</i><br><i>Web: Hypertonic Solutions</i><br><i>Web: Hypotonic Solutions</i> | 33 - 39      |
| 3           | Sept 3 - 6   | <b>Labor Day Week - Labs will not meet this week</b>   |              |
| 4           | Sept 10 – 13 | Exercise 10: Human Physiology - The Senses   | 79 - 90      |

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**Monday**

**Tuesday**

**Wednesday**

**Thursday**

**Friday**

