

Biology 1040 Organismal Biology Lab
Summer Semester 2011
Biology Department, College of Arts and Sciences
Valdosta State University

Professor: Dr. John Elder

Instructor: Charles W. Wright

Office: Science Building 2025

Office Hours: Tuesday from 9:00am to 10:00am or by appointment

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Room: Science Building 1085

Midterm: July 6, 2011. 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: 9:35-11:25 MW

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.

Educational outcomes associated with this course include #3 and 4 as specified by the VSU Department of Biology and #4, 5 and 7 of the general outcomes specified by Valdosta State University.

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 quiz missed before the end of the week. No lab make-up will be possible due to the brevity of the semester and the lack of other sections. As per University policy; a student who misses more than 20% of the scheduled classes of a course will be subject to receiving a FAILING grade in the course. (3 missed labs) If you are 10 minutes late to lab, you will be turned away from the lab. It will be your responsibility to contact me after class to arrange your chance to take the quiz you missed.

Lab Make-up Policy: The privilege of making up a missed quiz is not guaranteed. A quiz MAY ONLY BE MADE UP DURING THE WEEK IT IS SCHEDULED. When lab is done it is broken down and the setup for the next lab begins so there is no opportunity to make-up missed labs only missed quizzes. The instructor will determine validity of excuses. **ONLY ONE (1) MAKE UP QUIZ 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 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 be able to make up the quiz only during the week it is scheduled.**

MAKE UP LABS ARE NOT GIVEN SO DON'T ASK.

The lowest quiz or assignment grade will be dropped when calculating the student's final grade. If you miss the 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 – 100% = A 80 – 89.99% = B 70– 79.99% = C 60 – 69.99% = D Below 60% = F

Cheating and Plagiarism: Academic integrity is the responsibility of all VSU faculty and students. Faculty members should promote academic integrity by including clear instruction on the components of academic integrity and clearly defining the penalties for cheating and plagiarism in their course syllabi. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the faculty members' syllabi. All students are expected to do their own work and to uphold a high standard of academic ethics. A student caught cheating on a quiz, lab report, or assignment will receive a grade of zero and may receive a failing grade (F) in the course.

Each student will be required to complete his/her own lab report or assignment for certain lab experiments. Many of the experiments will be conducted as groups; however, group lab reports or lab reports identical to others in the class are not acceptable. **If two or more students turn in identical or similar lab reports or assignments, those students will receive a grade of zero on the assignment.**

Disruptive Behavior: The academic community is under a strong obligation to protect the campus community from disorderly, disruptive, or obstructive actions which interfere with academic pursuits of teaching, learning and other campus activities. Therefore, any disruptive behavior in the laboratory that interferes with the teaching of the laboratory exercises or disturbs other students or faculty will not be tolerated. **Any student that disrupts the class will be removed from the class and possibly dropped from the course.** This student will also forfeit any points toward his or her grade from that day and will not be able to make up the lab. Refer to the Undergraduate Catalog for more information.

TEXTING OR USING YOUR PHONE WILL NOT BE TOLERATED DURING CLASS! YOU WILL BE ASKED TO LEAVE THE CLASS IF THIS POLICY IS BROKEN!

Family Educational Rights and Privacy Act of 1974: It is illegal to release personal information about an individual to others. **Grades, averages, and other information will not be released to anyone but that individual; therefore, no grades will be posted or given out over the phone or email.**

Students with Disabilities: Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY).

Strategies Used to Support Learning : The Student Success Center: The Student Success Center (SSC) provides free peer tutoring in core courses, the top four of which are math, writing, Spanish, and biology/chemistry. It also offers Regents' Test Preparation, time management, and study skills workshops as well as provides free professional academic advising and on-campus job information in one location: Langdale Residence Hall above the Tech shop. Help is available to all VSU students. Call 333-7570 to make an appointment, or visit the website: www.valdosta.edu/ssc.

Tentative Lab Schedule:

Session	Date	Lab Exercise	Pages
1	8-Jun	Syllabi / Laboratory Safety Guidelines Web: Lab Safety Exercise 4: DNA Isolation, Restriction Enzyme Digestion	v-vii 27 - 30
2	13-Jun	Exercise 4: DNA Gel Electrophoresis (continued)	31 - 32
3	15-Jun	Exercise 3: Carbon Compounds	19 - 25
4	20-Jun	Exercise 5: Osmosis and Diffusion Web: Isotonic Solutions Web: Hypertonic Solutions Web: Hypotonic Solutions	33 - 39
5	22-Jun	Exercise 9: Photosynthesis Exercise 7&8: Plant Physiology & Nutrition – (Begin)	69 - 77 57 - 68
6	27-Jun	Exercise 10: Senses	79 - 90
7	29-Jun	Exercise 11: Metabolism -collect calories and activitiy data Exercise 7&8: Plant Physiology & Nutrition - (record data)	91 - 95 57 - 68
8	4-Jul	July 4th Holiday no class	
9	6-Jul	Exercise 12&13: Energy Budget & Body Composition Exercise 7&8: Plant Physiology & Nutrition - (record data)	97 - 110 57 - 68
10	11-Jul	Exercise 6: Forensic Microscopy	41 - 55
11	13-Jul	Exercise 7&8: Plant Physiology & Nutrition - (wrap-up)	57 - 68
12	18-Jul	No class read in manual for next class & Collect calories and activitiy data for the 20th	
13	20-Jul	Exercise 14: Circulation Web: Anatomy of Heart Web: Cardiac Cycle	111 - 117
14	25-Jul Last class	Exercise 14: Circulation Web: Circulation Blood Pressure	118 - 124

Instructor's
Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
9:00	Bio. 1040 Lab	Office Hour	Bio. 1040 Lab		
10:00	9:35 to	9 to 10	9:35 to		
11:00	11:25		11:25		
12:00	Field Work	Field Work	Field Work	Field Work	Field Work
1:00	Field Work	Field Work	Field Work	Field Work	Field Work
2:00	Field Work	Field Work	Field Work	Field Work	Field Work
3:00	Field Work	Field Work	Field Work	Field Work	Field Work
4:00	Field Work	Field Work	Field Work	Field Work	Field Work
5:00	Arthropod	Arthropod	Arthropod	Arthropod	
6:00	Management	Management	Management	Management	
7:00	5:00 to	5:00 to	5:00 to	5:00 to	
8:00	8:00	8:00	8:00	8:00	