Biology 1040 Organismal Biology Lab
Fall Semester 2013
Biology Department, College of Arts and Sciences
Valdosta State University

Instructor: Dr. Teresa H. Doscher
Office: Science Building 1098
Office Hours: T 2:00 – 3:00 pm, W 1:00 – 2:00 pm or by appointment
Phone: Office 333-5769, Biology Dept. Main Office 333-5759
E-mail: thdosche@valdosta.edu
Room: Science Building 1046
Midterm: October 3, 2013. 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 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 attendance in another lab.**

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 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.**

MAKE UP QUIZZES 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.

Biology 1040 Lab Schedule – Fall 2013

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

Week	Date	Lab Exercise	Pages
1	Aug 19 - 21	Syllabi / Laboratory Safety Guidelines Exercise 3: Carbon Compounds *Web: Lab Safety*	 19 - 25
2	Aug 26 - 28	Exercise 5: Osmosis and Diffusion *Web: Isotonic Solutions, Hypertonic Solutions, Hypotonic Solutions*	33 - 39
3	Sept 2 - 4	**Labor Day Holiday - No Labs All Week**	
4	Sept 9 - 11	Exercise 9: Photosynthesis *Web: Photosynthesis set up*	69 - 77
5	Sept 16 - 18	Exercise 7: Plant Physiology - Hormonal Effects (begin experiment) Exercise 8: Plant Nutrition (begin experiment) *Web: Plant Hormone set up, Plant Nutrition set up*	57 - 59 61 - 63
6	Sept 23 - 25	Exercise 4: DNA Isolation, Restriction Enzyme Digestion and Gel Electrophoresis Exercise 7 & 8: Plant Physiology and Nutrition - (record data)	27 - 30 57 - 68
7	Sept 30 - Oct 2	Exercise 4: DNA Gel Electrophoresis (continued) Exercise 7 & 8: Plant Physiology and Nutrition - (record data) *Web: Gel Electrophoresis and Gel Electrophoresis set up*	31 - 32 57 - 68
8	Oct 7 - 9	Exercise 7 & 8: Plant Physiology and Nutrition - (finish and discuss experiment)	57 - 68
9	Oct 14 - 16	Exercise 10: Human Physiology - The Senses *Web: Eye Structure*	79 - 90
10	Oct 21 - 23	Exercise 11: Metabolism Exercise 12 & 13: Record calories and energy expenditure for the next period *Web: Anaerobic Fermentation set up*	91 - 95 97 - 98
11	Oct 28 - 30	Exercise 12: Energy Budget Exercise 13: Body Composition *Web: Energy Budget and Body Composition, How to Measure Body Fat*	97 - 104 105 - 110
12	Nov 4 - 6	Exercise 6: Forensic Microscopy *Web: Parts of Microscope, How to Use a Microscope*	41 - 55
13	Nov 11 - 13	Exercise 14: Circulation *Web: Anatomy of Heart, Cardiac Cycle*	111 - 117
14	Nov 18 - 20	Exercise 14: Circulation *Web: Circulation Blood Pressure*	117 - 124
15	Nov 25 - 27	**Thanksgiving Holidays - No Classes All Week**	

Bio 1040 Organismal Lab - Fall 2013 - Room BC 1046

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM		SGCEP			
8:30 AM		Bernhardt			
9:00 AM		8 - 9:50			
9:30 AM					
10:00 AM		Bio 1040 Lab G	Bio 1040 L		
10:30 AM		Doscher	Doscher		
11:00 AM		10 - 11:50	10 - 11:50		
11:30 AM					
12:00 PM	Bio 1040 Lab B	Bio 1040 Lab H	Bio 1040 Lab M		
12:30 PM	Doscher	Thompson	Thompson		
1:00 PM	12 - 1:50	12 - 1:50	12 - 1:50		
1:30 PM					
2:00 PM	Bio 1040 Lab I		Lab Meeting		
2:30 PM	Gopinath		Lab Meeting		
3:00 PM	2 - 3:50		Lab Meeting		
3:30 PM			Lab Meeting		
4:00 PM					
4:30 PM					
5:00 PM					
5:30 PM					

Faculty	Office Phone #	Office #	Email
Ms. Lynda Bernhardt	219-1248	UC 2045	lbernhardt@valdosta.edu
Dr. Teresa Doscher	333-5769	BC 1098	thdosche@valdosta.edu
Mr. Adarsh Gopinath	333-5759	BC 2025	agopinath@valdosta.edu
Ms. Simone Thompson	245-6414	BC 1209	sjthompson@valdosta.edu
Biology office	333-5759	BC 2035	

If you cannot reach a faculty member, contact the main biology office and leave a message.

Dr. Doscher - Weekly Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM					
8:30 AM					
9:00 AM					
9:30 AM					
10:00 AM	Bio 1020 Lab A	Bio 1040 Lab G	Bio 1040 L		
10:30 AM	Doscher	Doscher	Doscher		
11:00 AM	10 - 11:50	10 - 11:50	10 - 11:50		
11:30 AM					
12:00 PM	Bio 1040 Lab B				Lab Meeting
12:30 PM	Doscher	Dept. Meeting			Lab Meeting
1:00 PM	12 - 1:50	Dept. Meeting	Office Hours		Lab Meeting
1:30 PM		Dept. Meeting	Office Hours		Lab Meeting
2:00 PM	Bio 1020 Lab C	Office Hours	Lab Meeting		Lab Meeting
2:30 PM	Doscher	Office Hours	Lab Meeting		Lab Meeting
3:00 PM	2 - 3:50		Lab Meeting		
3:30 PM			Lab Meeting		
4:00 PM					
4:30 PM					