

Biology 1040 Organismal Biology Lab
Spring Semester 2023
Biology Department, College of Arts and Sciences
Valdosta State University

Instructor: Mr. Jack A. Mohanty

Office: Bailey Science Center 2025

Office Hours: Friday 10:00 AM – 12:30 PM or by appointment

Phone: Office 333-5219, Biology Dept. Main Office 333-5759

E-mail: jamohanty@valdosta.edu

Room: Science Building 1046

Midterm (withdrawal deadline): March 9, 2023. 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:

Lab Manual (MANDATORY): 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. This text is not mandatory but will be helpful and it is free.

Textbook: Concepts of Biology from OpenStax College, ISBN 1-938168-11-9, <https://openstaxcollege.org/textbooks/concepts-of-biology>

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

COVID and Other Illness Procedure

As the Blazer Creed articulates, members of the VSU community are expected to live by the high standards of civility, integrity, and citizenship and embrace their responsibility as a member of the Blazer community. Unvaccinated individuals are strongly encouraged to get vaccinated. Vaccines remain available at no cost for all members of the university community by appointment at Student Health Services. For COVID Vaccines, please call ahead for an appointment at 229-333-5886.

If you suspect you are positive for COVID you can get tested for FREE at the Student Health Center. If you are told to quarantine due to COVID, I will try to work with you the best I can, BUT you will have to do your part to COMMUNICATE with me, study on your own and complete assignments during your quarantine. This is not a free pass to miss class. You are still responsible for learning the material covered in the course during your absence.

If you are COVID positive or have any other medical issue that prevents you from attending lab or making up the lab, you should immediately report to the Dean of Students so they can send out a notification to your professors. Lectures/labs will not be recorded but the powerpoints will be made available to you upon request. It will be up to you to study the powerpoints and read the text to prepare for quizzes and complete any assignments if applicable. You have a drop grade so if you miss lab one week due to quarantine and cannot make it up before the lab is broken down then the drop grade will apply to your missed assignment.

Students who are quarantined will be dealt with on an individual basis so it is very important to communicate with your instructor to make up your missed assignments and make sure you don't get behind.

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.**

Non-Discrimination and Title IX Statement

Valdosta State University (VSU) upholds all applicable laws and policies regarding discrimination on the basis of race, color, sex (including sexual harassment and pregnancy), sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. The University prohibits specific forms of behavior that violate Title IX of the Education Amendments of 1972. Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs and activities that receive federal funding. VSU considers sex discrimination in any form to be a serious offense. Title IX refers to all forms of sex discrimination committed against others, including but not limited to: sexual harassment, sexual assault, sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment based on an individual's sex/gender. The designated Title IX Coordinator for VSU is Mr. Darius Thomas. To view the full policy or to report an incident visit: <https://www.valdosta.edu/administration/student-affairs/title-ix/>

Accommodations Statement:

Students with disabilities who are experiencing barriers in this course may contact the Access Office <https://www.valdosta.edu/student/disability/> for assistance in determining and implementing reasonable accommodations. The Access Office is located in University Center Room 4136 Entrance 5. The phone numbers are 229-245-2498 (V), 229-375-5871. For more information, please visit VSU's Access Office or email: access@valdosta.edu. To request reasonable accommodations for pregnancy and childbirth, contact Christina Kidd, Student Conduct Coordinator at chkidd@valdosta.edu. Please note, you will be required to provide documentation from an appropriately licensed medical professional indicating the requested accommodations are medically necessary.

Extra Help with Coursework

The Academic Support Center (ASC) offers all VSU students free peer tutoring in core curriculum courses, including math, writing (any subject), chemistry, biology, foreign languages and more. Please bring your assignments, textbooks, and homework to tutoring sessions. Also available are free, one-hour seminars for help with study skills, time management, and a variety of other topics. Visit our office on the main campus, located in Langdale Residence Hall, or call 229-333-7570 for an appointment, or visit the website where you can make appointment for yourself (www.valdosta.edu/asc).

**Bio 1040 Organismal Lab
Spring 2023
Room BC 1046**

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM					
8:30 AM					
9:00 AM					
9:30 AM					
10:00 AM	Bio 1040 Lab A Doscher 10 - 11:50		Bio 1040 Lab E Harris 10 - 11:50		
10:30 AM					
11:00 AM					
11:30 AM					
12:00 PM	Bio 1040 Lab B Doscher 12 - 1:50		Bio 1040 Lab F Mgbeahuruike 12 - 1:50		
12:30 PM					
1:00 PM					
1:30 PM					
2:00 PM		Bio 1040 Lab C Harris 2 - 3:50	Bio 1040 Lab G Mohanty 2 - 3:50	Bio 1040 Lab H Doscher 2 - 3:50	
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM				Lab meeting	
4:30 PM				Lab meeting	
5:00 PM				Lab meeting	
5:30 PM				Lab meeting	

Faculty**Office Phone #****Office #****Email**

Dr. Teresa Doscher	333-5769	BC 1098	thdosche@valdosta.edu
Mr. Jakob Harris	333-7951	BC 1218	jakoharris@valdosta.edu
Ms. Miracle Mgbeahuruike	333-5219	BC 2025	momgbeahuruike@valdosta.edu
Mr. Jack Mohanty	333-5219	BC 2025	jamohanty@valdosta.edu
Biology office	333-5759	BC 2035	

Biology 1040 Lab Schedule – Spring 2023

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

Week	Date	Lab Exercise	Pages
1	Jan. 9 - 12	No labs this week	
2	Jan. 16 - 19	Syllabi / Laboratory Safety Guidelines / Laboratory Expectations	
3	Jan. 23 - 26	Exercise 1: Biological Macromolecules	1 - 6
4	Jan. 30 - Feb. 2	Exercise 2: Osmosis and Diffusion	7 - 16
5	Feb. 6 - 9	Exercise 3: Photosynthesis	17 - 20
6	Feb. 13 - 16	Exercise 4: Plant Physiology (begin experiment)	21 - 22
7	Feb. 20 - 23	Exercise 5: Deoxyribonucleic Acid Isolation and Gel Electrophoresis Exercise 4: Plant Physiology (record data)	27 - 30 21 - 22
8	Feb. 27 - March 2	Exercise 5: Deoxyribonucleic Acid Isolation and Gel Electrophoresis <i>continued</i> Exercise 4: Plant Physiology (record data)	27 - 30 21 - 22
9	March 6 - 9	Exercise 4: Plant Physiology (Finish experiment)	21 - 22
10	March 13 - 17	Spring Break - No labs this week	
11	March 20 - 23	Exercise 6: Senses	31 - 36
12	March 27 - 30	Exercise 7 - Metabolism and Fermentation	37 - 42
13	April 3 - 6	Exercise 10: Circulatory System - part 1	55 - 57
14	April 10 - 13	Exercise 10: Circulatory System - part 2	58 - 60
15	April 17 - 20	Exercise 10: Circulatory System - part 3	61 - 63
16	April 24 - 27	Make-up lab if need be	