

Biology 1020 Biodiversity Biology Lab
Fall Semester 2020
Biology Department, College of Arts and Sciences
Valdosta State University

Instructor: Braxton Crews

Office: Science Building 2082

Office Hours: Wednesday 12:00pm – 1:00 pm or by appointment

Phone: Office 219-3215, Biology Dept. Main Office 333-5759

E-mail: bgcrews@valdosta.edu

Room: Science Building 1047

Midterm: October 15, 2020. This is the last day to drop this course and receive a withdrawal grade (W).

Credit Hours: 1

Course Description:

Bio 1020L Biodiversity Lab

Co-requisite: **Bio 1010.** This course cannot be taken for credit toward the major in biology. An introduction to the diversity of life on earth with a special emphasis on ecological and evolutionary processes and relationships.

Course Objectives: This course is designed to accompany Bio 1010 by presenting exercises that emphasize an introduction to the diversity of life on Earth with a special emphasis on ecological and evolutionary processes and relationships. 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 1020L Biodiversity Lab: The Evolution and Diversity of Life 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.

COVID 19 CHANGES: Due to COVID 19 regulations we are altering the way non-major labs are taught. Only half of the normal number of students can be in the lab at a time. Therefore, each class will be divided into 2 groups (group A and group B). Each group will attend in-person labs on alternating weeks. The weeks that you do not have in-person labs you will have online labs to complete. All of the online labs will be posted on Blazevue. You will be told whether you are in Group A or Group B by the end of the first week of school. Each group has a different schedule which is listed at the end of the syllabus.

Attendance: Attendance in lab is mandatory. **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. There will only be six in-person labs and 6 online labs for you to attend/complete. So, if you miss 3 of them (online or in-person) you automatically fail the course.**

If you are 10 minutes late to lab, you will be turned away from the lab. Labs will begin on time so if you are late and are not present for instructions and safety issues you will not attend the lab. Also, it is imperative that you attend your regularly scheduled lab. No make-up labs will be allowed due to seating limitations. So, set alerts in your phone or mark your in-person labs on a calendar so you don't miss your in-person labs. You will have a week or more to complete your weekly online labs but we cannot alter the in-person labs.

Grading: Your final grade will be determined by laboratory quizzes, laboratory reports, homework assignments, daily participation grades and online labs. **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.** 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 for the in-person labs. 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. **All grades will be posted on Blazeview. This is a tentative summary of grades for the semester subject to change.**

In-person labs = 10 points each x 6 = 60 points	
Quizzes and assignments = 125 points	
Online labs = 10 points each x 6 = 60 points	
Total = 245 points	
A	90 - 100% 221 - 245 points
B	80 - 89.99% 196 - 220 points
C	70 - 79.99% 172 - 195 points
D	60 - 69.99% 147 - 171 points
F	below 60% below 147 points

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 in-person or online lab experiments. Many of the in-person 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.**

Access Statement: Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU's Access Office or email: access@valdosta.edu.

Title IX Statement: Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual

designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: Maggie Viverette, Director of the Office of Social Equity, titleix@valosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

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 1020 Biodiversity Lab Fall 2020
BC 1047**

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM			Bio 1020 K		
8:30 AM			Crews		
9:00 AM			8 - 9:50		
9:30 AM					
10:00 AM		Bio 1020 G	Biol 1020 L		
10:30 AM		Lamb	Crews		
11:00 AM		10 - 11:50	10 – 11:50		
11:30 AM					
12:00 PM	Bio 1020 Lab B		Bio 1020 M		
12:30 PM	Doscher		Doscher		
1:00 PM	12 - 1:50		12 - 1:50		
1:30 PM					
2:00 PM	Bio 1020 Lab C	Bio 1020 Lab I	Bio 1020 Lab N	Bio 1020 Lab S	
2:30 PM	Evans	Doscher	Doscher	Taylor	
3:00 PM	2 - 3:50	2 - 3:50	2 - 3:50	2 - 3:50	
3:30 PM					
4:00 PM		Bio 1020 Lab J	Bio 1020 Lab O	Lab Meeting	
4:30 PM		Lamb	Evans	Lab Meeting	
5:00 PM		4 - 5:50	4 - 5:50	Lab Meeting	
5:30 PM				Lab Meeting	

Faculty

Office Phone #

Office #

Email

Mr. Braxton Crews	219-3215	BC 2082	bgcrews@valdosta.edu
Dr. Teresa Doscher	333-5769	BC 1098	thdosche@valdosta.edu
Ms. Emily Evans	333-7951	BC 1218	eeevans@valdosta.edu
Mr. Blake Lamb	245-6414	BC 1209	blamb@valdosta.edu
Ms. Kenyanna Taylor	333-5219	BC 2025	kenytaylor@valdosta.edu
Biology Department	333-5759	BC 2035	

Group A Lab Schedule - Biol 1020 Biodiversity Labs

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

Week 1 - Introduction, Syllabus, Safety Guidelines

- August 17 - 21**
1. Watch the lecture titled "Biol 1020 Introduction, syllabus, and safety guidelines" on Blazeview.
 2. Complete the Syllabus/Safety quiz on Blazeview.

Week 2 & 3 - Taxonomy and Biomes

August 24 - 28 **IN-PERSON LAB:** Exercise 1: Taxonomy (pages 1-8)

Aug. 31 - Sept 4 **ONLINE LAB:** Week 2 & 3 Biomes Lab (Blazeview)

NO LABS THE WEEK OF SEPT. 7 - 11 DUE TO LABOR DAY HOLIDAY

Week 4 & 5 - Microscopy, Prokaryotes and Fungi

Sept. 14 - 18 **IN-PERSON LAB:** Exercise 2: Microscopy (pages 9 - 12)
Exercise 3: Prokaryotes (pages 13 - 20)

Sept. 21 - 25 **ONLINE LAB:** Week 4 & 5 Fungi Lab (Blazeview)

Week 6 & 7 - Protists and Invertebrates (part 1)

Sept. 28 - Oct. 2 **IN-PERSON LAB:** Exercise 4: Protists (pages 21-28)

Oct. 5 - 9 **ONLINE LAB:** Week 6 & 7 Invertebrates (Blazeview)
Part 1 - Phylum's Porifera and Cnidaria

Week 8 & 9 - Diversity of Plants and Invertebrates (part 2)

Oct. 12 - 16 **IN-PERSON LAB:** Exercise 6: Diversity of Plants (pages 37 - 45)

Oct. 19 - 23 **ONLINE LAB:** Week 8 & 9 Invertebrates (Blazeview)
Part 2 - Phylum's Platyhelminthes, Nematoda and Annelida

Week 10 & 11 - Angiosperms and Invertebrates (part 3)

Oct. 26 - 30 **IN-PERSON LAB:** Exercise 6: Diversity of Plants (Angiosperms pages 45 - 50)

Nov. 2 - 6 **ONLINE LAB:** Week 10 & 11 Invertebrates (Blazeview)
Part 3 - Phylum's Mollusca and Echinodermata

Week 12 & 13 - Variations Among Mammals and Arthropods

Nov. 9 - 13 **IN-PERSON LAB:** Exercise 9: Variations Among Mammals (pages 75 - 78)

Nov. 16 - 20 **ONLINE LAB:** Week 12 & 13 Invertebrates (Blazeview)
Part 4 - Phylum Arthropoda

Group B Lab Schedule - Biol 1020 Biodiversity Labs

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

Week 1 - Introduction, Syllabus, Safety Guidelines

- August 17 - 21**
1. Watch the lecture titled "Biol 1020 Introduction, syllabus, and safety guidelines" on Blazeview.
 2. Complete the Syllabus/Safety quiz on Blazeview.

Week 2 & 3 - Taxonomy and Biomes

August 24 - 28 **ONLINE LAB:** Week 2 & 3 Biomes Lab (Blazeview)

Aug. 31 - Sept 4 **IN-PERSON LAB:** Exercise 1: Taxonomy (pages 1-8)

NO LABS THE WEEK OF SEPT. 7 - 11 DUE TO LABOR DAY HOLIDAY

Week 4 & 5 - Microscopy, Prokaryotes and Fungi

Sept. 14 - 18 **ONLINE LAB:** Week 4 & 5 Fungi Lab (Blazeview)

Sept. 21 - 25 **IN-PERSON LAB:** Exercise 2: Microscopy (pages 9 - 12)
Exercise 3: Prokaryotes (pages 13 - 20)

Week 6 & 7 - Protists and Invertebrates (part 1)

Sept. 28 - Oct. 2 **ONLINE LAB:** Week 6 & 7 Invertebrates (Blazeview)
Part 1 - Phylum's Porifera and Cnidaria

Oct. 5 - 9 **IN-PERSON LAB:** Exercise 4: Protists (pages 21-28)

Week 8 & 9 - Diversity of Plants and Invertebrates (part 2)

Oct. 12 - 16 **ONLINE LAB:** Week 8 & 9 Invertebrates (Blazeview)
Part 2 - Phylum's Platyhelminthes, Nematoda and Annelida

Oct. 19 - 23 **IN-PERSON LAB:** Exercise 6: Diversity of Plants (pages 37 - 45)

Week 10 & 11 - Angiosperms and Invertebrates (part 3)

Oct. 26 - 30 **ONLINE LAB:** Week 10 & 11 Invertebrates (Blazeview)
Part 3 - Phylum's Mollusca and Echinodermata

Nov. 2 - 6 **IN-PERSON LAB:** Exercise 6: Diversity of Plants (Angiosperms pages 45 - 50)

Week 12 & 13 - Variations Among Mammals and Arthropods

Nov. 9 - 13 **ONLINE LAB:** Week 12 & 13 Invertebrates (Blazeview)
Part 4 - Phylum Arthropoda

Nov. 16 - 20 **IN-PERSON LAB:** Exercise 9: Variations Among Mammals (pages 75 - 78)