BIOL 1108L: Principles of Biology II Laboratory Department of Biology, College &cience and Math, Valdosta State University Spring 2024; Syllabus

Instructor: Mr. Joshua Brown Laboratory: BSC 1073

Office: Bailey Science Center, Room 2209; Phone: 219-36151 uabrown@valdosta.edu

Office hours: Mon/Wed & Th 12:00 – 2:00 PM or by appointment.

Course Description: A laboratory course to accompany BIOL08, with exercises dealing with anatomy and physiology of plants and animals.

Course Prerequisites: Grade of C or better in BIOL 1107 and 1107L or permission of instructor

Course Overview: This lab is a companion to BIOL 11.018 ab exercises will provide you greater insight into the physiological processes of plants animals. The lab will also introduce you to the diversity of life within the animal and plant hogoms as well as highlight evolutionary relationships among the phyla within these Kingdoms.

See Department of Biology Educational Outcomes the University General Educational Outcomes as listed at the end of this syllabus

BIOL 1108L: Principles of Biology II

This is a Core IMPACTScourse that is part of the <u>Technology</u>, <u>Mathematics & Sciences</u> area. Core IMPACTS refers to the core curriculum, whiteprovides students with essential knowledge in foundational academic areas. This course will the master course content, and support students' broad academic and career goals.

This course should direct studentstoward a broad Orienting Question:

x How do I ask scientific questions or use datanathematics, or technology to understand the universe?

Completion of this course should enable stuents to meet the following Learning Outcome:

x Students will use the scientific method and aboratory procedures or mathematical and computational methods to analyze data, so problems, and explain natural phenomena.

Course content, activities and exercises in this ourse should help students develop the following Career-Ready Competencies:

- x Inquiry and Analysis
- x Problem-Solving
- x Teamwork

Required materials:

Lab Text: Grove, T. 2015. Biolog_Lab Manual. This is an e-book lab manual. You can purchase the lab manual in one of two ways:

- 1. Purchase an Access Cod at the Valdosta State sity Bookstore and use the code to access the lab manual atttps://www.grlcontent.com/
- Purchase the Access Code directly through the publisher at the web site
 https://www.grlcontent.com/The second option is less expensive than option #1 but you cannot use your VSU student aid, you must use a credit or debit card.

How to Use the Lab Manual: The lab manual is entirely online and mandatory. Each lab includes all

the content necessary to understand and complete the hyou are required to read the background information and complete the pre-lab assignment before coming to class. The page after the pre-lab assignment contains pdfs of the exercises that ybucomplete during lab and another pdf with all the background information. You can either vieweste documents on your phone, tablet, laptop computer, etc. in lab, OR you can print them off. Howeverere are no computers in the lab for you to use.

Attendance: Lab will be held weekly, and you are expecto attend each class. Attendance will be marked but you will not be graded on it is a hands on/in-person lab, its requires you to be in class to obtain the information necessary to do well you miss class for any reason, you are still responsible for any work/information missed when you were absteryou miss a day where we do an experiment, there is limited opportunity to make it up (see lab Make-up policy below).

Communication: I mainly use Outlook for communication. I check email often and am usually quick to respond. Please only email during appropriate hours (respond), if you email me during odd hours of the night, I will not respond. Do not email mecauple of hours before an assignment is due. If you are having issues, there is nothing I can do to help in such a short time frame. I strongly recommend you check your email often. You could potentially misst on important information from me if you don't.

"I didn't see your email" is not an excuse....

Be courteous I will not respond to rude/vertly negative emails.

Lab/homework assignments, tendance and practical exams

Pre-lab and Post lab assignments:

Each week there will be Pre-lab and Post-lab **entiss**ignments. Pre-lab online assignments must be completed by the start of the lab session.

Online post-lab assignments will open immediately **ateth**d of class, and you will have until the next class to complete it. I will provide you with a schedule dates for pre-lab and post-lab assignments.

Be aware that some assignments are worth maredthers. Point values range from four to twenty points.

I will not be reopening pre/postlab assignments for any reason.

Lab assignments

Each week there will be a ten-point assignmenty that must be present to complete. These assignments will range from completion of simple drawings to agh construction and statical analysis. We will discuss what is required for each assignment as they come up.

Lab Practical Exams:

There will be two lab practical exams. They will each conset of the material in lab. The first practical will cover the animal portion of lab and the second one verything discussed in class almed lab manual. Lab practical exams can only be taken the day that they are scheduled.

Lab grade	8		Grade breakdown	
5 Points	Attendance/syllabus quiz	Α	495 – 550	
93 points	Pre – lab assignments	В	440 – 494	
142 points	Post – lab assignments	С	385 – 439	
110 points 200	Lab assignments Lab Practical Exams	D	330 – 384	
550 points	Class total	F	0 329	

Attendance Policy/Lab Makeup: This course follows the university policy on class absences:

"Whether online or face-to-face, a student who missessoes not participate in more than 20% of the scheduled course or course activities could be stubi receiving a failing grade in the course" – 2023-2024 Undergraduate Catalog

Also, as stated in the Undergraduate Catalog, Uthierersity does not issue anx cuse to students for class absences. In case of absences as a resuless idn special situations, instructors may be informed of reasons for absences, but these arexiouses". I will consider all absences on a case-by case basis.

Students who mis or more labs during the course of the semestenuld be subject to the above

Mid-term, or in-progress grades: The instructor is required to submit in-progress grades prior to mid-

TENTATIVE LAB SCHEDULE AN D TOPICS Spring 2024

Week 1: Aug 14-18 Lab 1 – Introduction and Basic Statistics

Week 2: Aug. 21-25 Lað – Non-vascular plants

Week 3: Aug. 28- Sep. 1 Lab 3 – Vascular Plants

Week 4: Sep. 4-8 PRACTICAL 1

Week 5: Sep. 11-15 Lab 4 – and cells, organs, and growth

Week 6: Sep. 18-22 Lab 5 – Angiosperm development

Week 7: Sep. 25-29 Lab 6 – Growth and transpiration

Week 8: Oct. 2-6 PRACTICAL 2 and Lab 7 – Animal diversity I

Week 9: Oct. 9-13 Fall break: No class

Week 10: Oct. 16-20 Lab 8 – Animal diversity II

Week 11: Oct. 23-27 Lab 9 – Intro to Animal tissue

Week 12: Oct. 30 – Nov 3 PRACTICAL 3

Week 13: Nov. 6-10 Lab 10&12 – Fetal pig/cardiovascular

Week 14: Nov. 13-17 Lab 11 – Sensory systems

Week 15: Nov. 20-24 Thanksgiving holiday: No class

Week 16: Nov. 27- Dec 1 PRACTICAL 4

Important dates		
Mon, Aug 14	First Class Day	
Mon, Sep 4	Labor Day Holiday	
Thur, Oct 5	Official Midterm	
Mon-Tues, October 9-10	Fall Break	
Wed-Fri, Nov 22-24	Thanksgiving Holidays	
Mon, Dec 4	Last Class Day	