

BIOL 1108L: Principles of Biology II Laboratory

Department of Biology, College of Science and Math
Valdosta State University

Semester: Fall 2020

Instructor: Ms. Dariana N. Rodríguez, Faculty

Room Number: BSC 1073

Sections:

Section A: Tuesday 2-4:50 pm **Session A: 2-3:20** **Session B: 3:30-4:50**

Section B: Wednesday 9-11:50 am **Session A: 9-10:20** **Session B: 10:30-11:50**

Section D: Thursday 2-4:50 pm **Session A: 2-3:20** **Session B: 3:30-4:50**

Contact Information: Bailey Science Center Office Number 2210

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Phone: 229-219-3594

Office Hours: Tuesday 12-1:50 pm

Course Description: A laboratory course to accompany BIOL 1108, with exercises dealing with anatomy and physiology of plants and animals.

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

Course Overview: This lab is a companion to BIOL 1108. Lab exercises will provide you greater insight into the physiological processes of plants and animals. The lab will also introduce you to the diversity of life within the animal and plant Kingdoms as well as highlight evolutionary relationships among the phyla within these Kingdoms.

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

Required materials:

Lab Text: Grove, T. 2015. Biology Lab Manual. You can purchase the lab manual by purchasing an Access card at the Valdosta State University Bookstore. Link: www.grlcontent.com

How to Use the Lab Manual: The lab manual is found online. I will go over how to use this manual during the first week of class. But, briefly, each lab includes all the content necessary to understand and complete the lab. You are **required** to read the background information and complete the pre-lab assignment before coming to lab. The page after the pre-lab assignment contains pdfs of the exercises that you will complete during lab and another pdf with all the background information. I will provide you with the exercise pages that need to be completed for each lab and the background information during lab for reference.

Our first lab, an introduction to statistics, will be a virtual lab because we cannot meet in the computer lab due an inability to practice physical distancing there. I will provide you with a pdf that includes

background material as well as the homework assignment associated with this lab, uploaded into blazeview. This will allow you to complete the lab even if you are not able to purchase the lab manual before our first lab.

If you have problems buying the manual because of slow financial aid please let me know. I will work with you until you are able to purchase the manual. If you are retaking the class do not buy another access code for the manual, simply email Great River Support and they will give you access. Let me know if you have issues.

Attendance: Lab will be held face-to-face weekly. Our lab is scheduled for 2 hours and 50 minutes each session. I will divide the class into two groups (each group will meet for 1 hour and 20 minutes) in order to meet VSU physical distance guidelines. You must attend your assigned session as there will not be room in the alternate session for you to attend. I will assign you your session before our first lab. Please check the excel file in our blazeview course for your student ID number and assigned session.

SESSION A:

SESSION B:

Assignments:

Assignments will consist of weekly online assignments, periodic homework assignments, and two practical exams.

Pre-lab and Post lab assignments:

Each week there will be Pre-lab and Post-lab online assignments. Pre-lab online assignments must be completed prior to the scheduled lab session. **The scheduled lab session is the start time listed in banner per section.** Pre-lab assignments will be worth 0 or 2 points (0 points if not completed and 2 points if completed).

Online post-lab assignments through the lab manual will be due **prior** to the start of the following week's lab meeting. Online post-lab assignments will be worth variable points. I will provide you with a schedule of due dates for pre-lab and post-lab assignments. No late assignments will be accepted, there is a time stamp when you turn them in (unless I approve an exception).

Homework assignments:

Some labs will require you to perform statistical analysis of data and to prepare graphs or tables using Microsoft Excel software. Data analysis for a lab will be discussed during the lab you collect data and will be due at the start of the next lab period. These assignments will be worth variable points. No late assignments (unless I approve an exception) and no emailed assignments will be accepted. Do not assume that you will have time immediately before lab to print assignments or finish online assignments. Microsoft Office offers their applications for free to students.

Lab Practical Exams:

There will be two lab practical exams, each worth 50 points. One will cover the unit on plants and one will cover the unit on animal diversity and physiology. Questions are typically based upon PowerPoint images, but they may include microscope slides and whole/partial organism specimens. Lab practical exams can only be taken the day that they are scheduled.

Lab grade:

60% - Attendance, pre-lab and post-lab online assignments, homework assignments, and in-class quizzes

40% - Lab Practical Exams

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

“Whether online or face-to-face, a student who misses or does not participate in more than 20% of the scheduled course or course activities could be subject to receiving a failing grade in the course” – 2019-2020 Undergraduate Catalog

Also, as stated in the Undergraduate Catalog, “the University does not issue an excuse to students for class absences. In case of absences as a result of illness or special situations, instructors may be informed of reasons for absences, but these are not excuses”. I will consider all absences on a case-by case basis.

Students who miss **3 or more labs** during the course of the semester could be subject to the stated policy. If you are absent from lab or know you will be absent from lab, please contact me **within 24 hours** with the reason. If I consider it an excused absence, I may be able to give you an opportunity to attend another lab session during that same week.

No labs can be made up once the week has ended.

Athletes and other University representatives: Please let me know in advance if you will be missing a lab due to an away game or other required event. We can make arrangements for you to attend an alternative lab section.

Lab Conduct:

- Arrive on time – Please maintain proper physical distancing while waiting in the hallways outside of class
- Remember masks are required inside of all school buildings and areas where social distancing is not able to be maintained
- A lab notebook is not required but it is strongly advised to maintain a laboratory notebook with drawings, descriptions, data etc. of the laboratory exercises. The notebook will help you study for the practical exams.
- No eating or drinking during the lab!!
- Students must take care of lab equipment. Notify the professor if something is not working properly or if something breaks during the course of the lab
- Each student will be assigned a microscope. It is the student’s responsibility to properly use the microscope. Notify the professor if your microscope is not functioning properly.
- No texting! – Cell phones are only to be used for lab purposes (taking pictures, calculator, timer, etc)
- Use of electronic devices will only be allowed with instructors permission

Academic Integrity: By taking this course, you agree that all required course work may be subject to submission for textual similarity review to Turnitin, a tool within BlazeVIEW.

Mid-term, or in-progress grades: The instructor is required to submit in-progress grades prior to mid-term (October 8, 2020). I will assign an overall average grade at this point on the normal scale of A-F viewable on Banner. Students receiving a grade of “D” or lower should therefore carefully evaluate their option of dropping this course by midterm without academic penalty. The deadline for withdrawal through Banner is October 15, 2020.

Tentative Lab Schedule

Week of:	Topic	Lab Number
Aug. 17-21	Introduction to Basic Statistics	One
Aug. 24-28	Nonvascular Seedless Plants	Two
Aug. 31-Sept 4	Vascular Plants	Three
Sept. 7-11	NO LAB: Labor Day	
Sept. 14-18	Plant Cells, Organ Structures, and Growth	Four
Sept. 21-25	Angiosperm Development Plant Growth	Five Six
Sept. 28- Oct. 2	LAB PRACTICAL #1: Plant Diversity and Physiology	
Oct. 5-9	Animal Diversity I	Seven
Oct. 12-16	Animal Diversity II	Eight
Oct. 19-23	Introduction to Animal Tissues	Nine
Oct. 26-30	External and Internal Anatomy of the Fetal Pig	Ten
Nov. 2-6	Sensory Systems	Eleven
Nov. 9-13	Cardiovascular System	Twelve
Nov. 16-20	LAB PRACTICAL #2: Animal Diversity and Physiology	

Biology Tutoring: The Academic Support Center (ASC) at Valdosta State University is located on the second floor of the Odum Library. The ASC provides free peer tutoring in core curriculum courses, including biology. Call 333-7570 to make an appointment, or visit their website at <https://www.valdosta.edu/asc/>

Privacy Act (FERPA): The Family Educational Rights and Privacy Act (FERPA) prohibits the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given over the telephone or over email because positive identification can't be made.

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@valdosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

Campus Gun Carry Statement (HB 280): If you choose to carry a concealed weapon on campus, you are responsible for knowing and following the law. Refer here for FAQ:

<https://www.valdosta.edu/administration/finance-admin/police/campuscarry/>

SOI Statement: At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available through SmartEvals. Students will receive an email notification through their VSU email address.

University Policy for Face Coverings: 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. In recognition of this responsibility, and in response to the best available science and current guidance from the Centers for Disease Control and Prevention and the Georgia Department of Public Health, every student must wear a face covering that covers their nose and mouth at all times while in any campus building, including in this classroom. This requirement is intended to protect the health and safety of all VSU students, the instructor, and the entire university community. Anyone attending class without a face covering will be asked to put one on or leave. Students should also be sure they maintain a distance of at least six feet away from their fellow students and instructor and are seated in a seat that is designated to ensure that distance. Students who refuse to wear face coverings appropriately or adhere to other stated requirements may face disciplinary action for Code of Conduct violations.

Coronavirus Resources for Students: VSU cares about student success both on and offline, and a variety of resources are available to help students both academically and personally during the Fall 2020 semester.

One of the best resources is VSU's Coronavirus FAQ page located at <https://www.valdosta.edu/health-advisory/faq.php>. Information is available there about a variety of topics in VSU's return-to-campus plan. A website devoted to the health and wellness of VSU students can be seen at <https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php>.

You can find information, including how you can access the Brightspace Pulse app that will allow you to view BlazeVIEW on your smartphone at <https://www.d2l.com/products/pulse/>. In BlazeVIEW, all VSU

students have a course with guides for how to use tools in BlazeVIEW; search for “VSU BlazeVIEW Student Tutorial 2020.”

VALDOSTA STATE UNIVERSITY GENERAL EDUCATIONAL OUTCOMES (GEO)

3. Students will use computer and information technology when appropriate. They will demonstrate knowledge of computer concepts and terminology. They will possess basic working knowledge of a computer operating system. They will be able to use at least two software tools, such as word processors, spreadsheets, database management systems, or statistical packages. They will be able to find information using computer searching tools.

4. Students will express themselves clearly, logically and precisely in writing and in speaking, and they will demonstrate competence in reading and listening. They will display the ability to write coherently in standard English; to speak well; to read, to understand, and to interpret the content of written materials in various disciplines; and to listen effectively and to understand different modes of communication.

5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices. They will understand the basic concepts and principles underlying scientific methodology and be able to collect, analyze, and interpret data. They will learn a body of scientific knowledge and be able to judge the merits of arguments about scientific issues. They will be able to perform basic algebraic manipulations and to use fundamental algebraic concepts to solve word problems and equations. They will be able to use basic knowledge of statistics to interpret and to analyze data. They will be able to evaluate arguments based on quantitative data.