

BIOL 1108 Principles of Biology II Lab Spring 2019 Syllabus

Instructor: Dr. Theresa J. Grove
Office: BC 1036
Office hours: Monday 1:00-3:00 and Tuesday 9:00-11:00, by appointment
Email: tjgrove@valdosta.edu (I do not use on Blazeview for email)
Lab (BC 1073): Wednesday 8:00-10:50a.m.

Prerequisite: BIOL 1107 (or the equivalent) or permission of the instructor.

Description: An introduction to physiological processes in plants and animals. Structure, nutrition, transport, coordination, reproduction, and development will be addressed.

Course goals and objectives: The primary goal of this course is to introduce structure-function relationships and physiological processes of plants and animals. This is the second introductory course, and it is expected that you are familiar with topics covered in BIOL1107 so that you can build on your foundational knowledge of biology. At the end of the semester you will be able to successfully complete higher level courses.

Learning goals include:

- Increase your understanding of structure-function relationships in biology
- Increase your understanding of the physiology of the major systems in plants and animals including:
 - Structure/function relationships
 - Nutrition
 - Transport
 - Movement
 - Reproduction
 - Development
 - Sensory systems
- Strengthen your ability to critically analyze scientific data and test scientific hypotheses
- Cultivate the linkage of biology with math, physics, and chemistry

Textbooks and Other Items

- Lab Manual (Required), Great River Learning, ISBN 9781680750201, available from the bookstore or publisher at grtep.com

Blazeview D2L: I will post grades on Blazeview. All assignments I give to you in lab will be posted in Blazeview as a backup, although if I handed out a copy in lab, you must turn in a hard copy when the assignment is due. I will also post a "How to Study" packet in BV.

Attendance: Attendance in lab is required by all students. For lab, excused absences are given for university-related functions and medical emergencies; documentation must be provided. I determine whether or not an absence is "excused", and you must contact me as soon as possible if you miss a lab. If you miss three labs **for any reason** you cannot earn higher than a 60% for your final lab grade. You are responsible for all lab content even if you receive an excused absence. If you do miss a lab (excused or unexcused), while I am more than happy to get out the necessary specimens for you to examine the following week, some specimens may not be available, so do not assume that everything will be there.

Academic conduct: Cheating and plagiarism will not be tolerated and may result in a failing grade for the assignment, exam, or your final lab grade. The Department of Biology has a plagiarism policy on its website, which will be briefly discussed in the first lab period. It is the student's responsibility to make sure they understand this policy.

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 because positive identification cannot be made; if you have questions about your grades come see me.

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 is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment and 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.

Concealed Guns on Campus: If you choose to carry a concealed weapon you are responsible for knowing and following the law. Licensed individuals may carry a handgun if it is mostly covered, does not actively draw the attention of people and is "not prominently, openly and intentionally displayed". While concealed guns are allowed in lecture and lab classrooms, no guns are allowed in faculty, staff and administrative offices and in rooms where Move On When Ready (MOWR) high school students are enrolled. It is the responsibility of you (the gun-carrier) to determine which classes have high school students enrolled. It is a misdemeanor to violate this law. Further information regarding policies may be announced. If you have any questions concerning this new law, contact University Police (229-333-7861) or the University Attorney (229-333-5351).

Lab "Rules"

- Attendance is required.
- Arrive on time.
- Emailed assignments generally will not be accepted unless otherwise specified.
- No eating or drinking during the lab. There are NO exceptions! If you come to lab with food or drink you will be asked to put it away or out in the hall.
- Students must take care of lab equipment (including microscopes). Notify the professor if something is not working properly or if something breaks during the course of the lab.
- Cell phones should not be used in lab with the exception of using them to view the online lab manual, cameras or when I approve their use.
- There are no "open" lab periods.
- No late pre-lab and post-lab assignments will be accepted or allowed to be completed.
- No late assignments will be accepted.

Information about the Lab Manual: The lab manual is an online manual. I will go over how to use this manual during the first lab period. 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. For the labs on January 30, February 6, February 13 and February 20, you are required to bring a printed copy of the lab exercises (2.5 pts) and either a printed copy of the background information or show me your electronic access to the background information (2.5 pts) for a total of 5 homework points. For the rest of the semester you should either bring hard copies or be able to view these documents on your phone, tablet, laptop computer, etc. in lab.

I will bring handouts for the first statistics lab, but I will not bring handouts for any of the later labs. If you have problems buying the manual because of slow financial aid see me. **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.

Lab Assignments: Throughout the semester students will complete the following types of assignments. Online pre-lab assignments will be due at the start of the lab period. Pre-lab assignments will be worth 0 or 2 points (0 points if not completed and 2 points if completed). In-class assignments will be described at the start of lab and will be due at the end of lab. Online post-lab assignments through the lab manual will usually be due one week later at the start of lab. Data analysis for a lab will be discussed during the lab you collect data and will be due usually 1 week later. In-class and post-lab 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; nonfunctional printers, no paper, slow internet etc. are not acceptable reasons for why you did not complete an assignment. It is good practice to plan ahead and have assignments completed and/or printed the day before your lab. While students can always discuss assignments with each other, everyone must complete their own graphs, which means two (or more) people cannot work together on the same computer and hit print multiple times. If identical graphs are turned in, students will earn a zero on that assignment.

Lab Quizzes: At the start of lab each week I will give you a quiz over the previous week's lab exercise. These will be timed powerpoint quizzes (15-20 pts each). If you arrive late to lab or if you miss the lab for an unexcused reason you will not be able to take the quiz. All lab quiz grades will be figured into your final course grade (no quiz grades are dropped).

Lab Practicals: Two lab practicals (50 points each) will be given, one covering plants and one covering animals. Anything that the student examined or studied in the lab is fair game for a lab practical. The lab practicals will be timed and will be a Powerpoint Presentation. Lab practicals will be fill in the blank and multiple choice. You must notify me within 24 hours of missing a lab practical to schedule a make-up time. More information will be given in lab.

Final Grade: The lab component of BIOL1108 is worth 25% of your final lecture grade. I will post grades in Blazeview. Below is how your lab grade will be calculated (but feel free to ask if you have any questions):

Lab Grade:

- *Lab Homework (component 1):* Add up all lab homework grades (includes prelabs, postlabs, graphing, and any other homework grades), divide by the total points possible. Multiply by 100 to get a percentage. Multiply this percentage by 0.50 (which is 50%).
- *Lab Quizzes (component 2):* Add up all quiz grades and then divide by the total points possible. Multiply by 100 to get a percentage. Multiply this percentage by 0.10 (which is 10%).
- *Lab Practicals (component 3):* Each practical will be worth 50 points. Add up your practical grades and divide by the total possible points (100 points). Multiply by 100 to get a percentage. Multiply this percentage by 0.40 (which is 40%)
- *Lab Grade:* Add Component 1 + Component 2 + Component 3

Spring 2019 Lab Schedule (Tentative)	Date	1Online Pre-lab open – close dates	1Online Post-lab open – close dates
Intro to Statistics (Lab 1): Meet in Bailey Science Center Room 3018	Jan 16	None	None
MLK Holiday (no lab on January 23)			
Diversity Part I (Lab 7)	Jan 30	Jan 17 – Jan 30	Jan 30 – Feb 6
Diversity Part II (Lab 8)	Feb 6	Jan 30 – Feb 6	Feb 6 – Feb 13
Animal Tissues (Lab 9) and Fetal Pig Anatomy (Lab 10)	Feb 13	Feb 6 – Feb 13	Feb 13 – Feb 20
Sensory System (Lab 11)	Feb 20	Feb 13 – Feb 20	Feb 20 – Feb 27
Cardiovascular System (Lab 12) Excretory System (Lab 13)	Feb 27	Feb 20 – Feb 27	Feb 27 – Mar 6
<i>Animal Practical</i>	Mar 6		
Nonvascular Plants (Lab 2)	Mar 13	Mar 6 – Mar 13	Mar 13 – Mar 27
Spring Break (No Lab March 20)			
Vascular Plants (Lab 3)	Mar 27	Mar 13 – Mar 27	Mar 27 – Apr 3
Plant Cells, Organs and Growth (Lab 4)	Apr 3	Mar 27 – Apr 3	Apr 3 – Apr 10
Angiosperm Development (Lab 5)	Apr 10	Apr 3 – Apr 10	Apr 10 – Apr 17
Growth and Transpiration (Lab 6)	Apr 17	Apr 10 – Apr 17	Apr 17 – Apr 24
<i>Animal Practical</i>	Apr 24		
Review for Final	May 1		

¹Lab assignments will open and close on the dates at the same time your lab section starts