

BIOL 1108L: Principles of Biology Laboratory II (0-3-1)
Valdosta State University, Biology Department, College of Science & Math
Fall 2021: Laboratory Syllabus

Laboratory Sections: **C** **(CRN # 24678): T** 9:30 a.m. -- 12:20 p.m. – **BC 1073**
 H **(CRN # 24683): R** 2:00 p.m. – 4:50 p.m. – **BC 1073**

NOTE: During the drop/add period, each lab section will be split into two groups to maintain social distancing using a seating chart as follows:

Section C: Group **A-** 9:30 am – 10:55 am **Section H:** Group **A-** 2:00 – 3:25 pm
 Group **B-** 10:55 am – 12:20 pm Group **B-** 3:25 – 4:50 pm

Instructor: Dr. Brian C. Ring
 Office: BC 2084
 Office hours: **M & W** 12:30 p.m. – 1:45 p.m. or by appointment- Use *Microsoft Teams* to voice or video chat in lieu of F2F office time during this pandemic.
 Phone: 249-4841 (Dept. office 333-5759)
 Email: bcring@valdosta.edu (**please use D2L first please**)

Prerequisite: BIOL 1107 Unifying Principles of Biology I & Lab or permission of the instructor. Note a grade of C or higher is required in both the above lecture and lab, along with all science & math courses in the Science major.

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

Required Laboratory Manual: Grove, T.J. Biology Lab Manual. Great River Learning, ISBN 9781680750201, available from the bookstore or publisher at grtep.com.

Note: You must register for the online lab manual using the access code from the bookstore or directly with publisher on their website.

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 online 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. **After completion of a lab you will have a week to complete the post-lab quiz online. For the first unit on animal biology you are required to bring a printed copy of the lab exercises 7-11 and either a printed copy of the background information or show me your electronic access to the background information.** I will bring handouts for the first statistics lab 1, but I will not bring handouts for any of the later labs. 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.

Course Goals: 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 as a science major.

Course Objectives: Upon completion of this course the student should be able to:

- 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

Grading:

Lab Practicals: Two lab practicals are given during the course covering what you have learned on animals and plants. Each counts 100 points to your final lab grade (see schedule below). Note: For many of you a lab practical is a new form of examination. Practical exams test what you have learned across the labs by asking you questions requiring your prior observations, descriptions, and interpretation of materials explored in the lab. So use the time in lab wisely to expand upon the information and assignments given to you in the lab manual. Then go back and study prior to the in lab practical.

Miscellaneous Assignments: During the course, students will be required to complete the online pre- and post- quizzes available in the online laboratory manual for this course. These grades, as well as lab attendance, in-lab quiz grades, and various homework assignments are summed and a percentage grade is calculated on a 100% scale. These combined assignments will count as 1/3rd of your laboratory grade. I will post the three categories of grades on BlazeVIEW, but the individual miscellaneous assignments may be maintained separately from BlazeVIEW. However, these assignments can simply be totaled up and divided by the total possible points to find your overall percent for this category.

Final grades are based on a percentage of your cumulative points relative to the total points possible:

Practical 1 (Animals):	100 pts
Practical 2 (Plants):	100 pts
Misc. Assignments:	<u>100 pts</u>
Total:	300 pts

Attendance Policy: 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 through Student Affairs/Access Office. The instructor determines whether or not an absence is “excused”, and you must contact me as soon as possible if you miss a lab by reporting a DOSO. 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. The full absence regulations are available in the online catalog at <http://catalog.valdosta.edu/undergraduate/academic-affairs/>

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. Besides eating while dissecting a pig is just gross!
- 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.

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 (3/6/2020). In theory, a mid-term grade is necessary for a student to assess how s/he is doing in class by midterm. In this course, students will have feedback on several lab quizzes, lab assignments, and any homework or group assignments. I will, in general, 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 **March 12, 2020**.

Privacy Act (FERPA): The Family Educational Rights and Privacy Act (FERPA) prohibit the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given by email or over the telephone, as positive identification cannot be made by this manner. Grades will be posted through BlazeView course website.

Biology Tutoring: The Academic Success Center (ASC) at Valdosta State University is located in the Odum Library and is available to all students. The ASC provides free peer tutoring in core curriculum courses, including biology, chemistry, math, writing, and foreign languages. The SSC also provides free professional academic advising and on-campus job information in one location. Call 333-7570 to make an appointment, or visit the website: www.valdosta.edu/asc.

Access Office: Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498

(V/VP) and 219-1348 (TTY) or visit the website 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 sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, 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: the Director of the Office of Social Equity, titleix@valdosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31698, 229-333-5463.

Campus Gun Carry Statement (HB 280): If you choose to carry a concealed weapon on campus (e.g. lab), 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 when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous to instructors/administrators, and they will be able to access results only after they have submitted final grades. Before final grade submission, instructors will not be able to see any responses, but they can see the percentage of students who have or have not completed their SOIs. While instructors will not be able to see student names, an automated system will send a reminder email to those who have yet to complete their SOIs. Students who withdraw or drop a course will also be sent invitations to complete the Dropped Course Survey. Complete information about the SOIs, including how to access the survey, is available on the SOI Procedures webpage.

Spring 2020 Lab Schedule (Tentative)	Week Of:	Online Pre-lab* open – close dates	Online Post-lab* open – close dates
Introduction, Safety, Discussion Splitting into Groups	Jan 11	None	None
MLK Holiday (no lab on January 20)- Basic Statistics (Lab 1) for Sections C & H		We will meet in lab then go to Bailey Computer Lab 3018 to finish Lab 1 if needed. Post-Assignment Due in BV	
Diversity Part I (Lab 7)- print lab	Jan 25	Jan 11 – Jan 25	Jan 25 – Feb 01
Diversity Part II (Lab 8)- print lab	Feb 01	Jan 11 – Feb 01	Feb 01 – Feb 08
Animal Tissues (Lab 9)- print lab	Feb 08	Jan 11 – Feb 08	Feb 08 – Feb 15
NO LABS- wellness day Feb. 16th	Feb 15	None	None
Fetal Pig Anatomy (Lab 10)- print lab	Feb 22	Jan 11 – Feb 22	Feb 24 – Mar 02
Cardiovascular System (Lab 12)- print lab	Mar 01	Jan 11 – Mar 01	Mar 01 – Mar 08
Animal Lab Practical	Mar 08		
Nonvascular Plants (Lab 2)	Mar 15	Mar 08 – Mar 15	Mar 15 – Mar 22
Vascular Plants (Lab 3)	Mar 22	Mar 08 – Mar 22	Mar 22 – Mar 29
Plant Cells, Organs and Growth (Lab 4)	Mar 29	Mar 08 – Mar 29	Mar 29 – Apr 05
Angiosperm Development (Lab 5)	Apr 05	Mar 08 – Apr 13	Apr 13 – Apr 20
NO LABS- wellness day Apr. 15th	Apr 12	None	None
Growth and Transpiration (Lab 6)	Apr 19	Mar 08 – Apr 19	Apr 19 – Apr 26
Plant Lab Practical	Apr 26		

* Pre-Labs open at start of practical units and close on Monday @ 8am at the beginning of each week. Post-lab starts on the Monday of the week of labs and ends the following Monday at 8 am.