

BIOL 1108 Principles of Biology II Laboratory
Sections D, G, H
Spring 2024

Location: BC 1073 (except for first lab in BC 3018)

Section D Tuesday 2 pm- 4:50 pm

Section G Thursday 9:30 am- 12:20 pm

Section H Friday 11:00 am – 1:50 pm

Instructor: Dr. Cristina Calestani
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Office hours:

Monday-Wednesday 3:30 PM – 5 PM

Tuesday-Thursday 5:00 PM - 5:30 PM.

Or by appointment outside office hours (please send me an email to the valdosta.edu account).

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

Prerequisites: BIOL 1107 and 1107L or permission of the instructor. Co-requisite: BIOL 1108.

REQUIRED TEXTBOOK

Grove, T. 2015. Biology Lab Manual.

This is an e-book only. You need to buy an Access card either at the VSU Bookstore or directly from the publisher at GreatRiverLearning.com

ATTENDANCE POLICY

• **Attendance is mandatory.**

Students who miss three or more labs cannot receive a lab grade above a “D” (60%). From the VSU Undergraduate Catalogue: “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.

• **Arrive on time.** Students arriving 10 minutes late will have points deducted from the assignments

• **Exceptions to the Attendance Policy**

From the VSU Undergraduate Catalogue at <http://catalog.valdosta.edu/undergraduate/academic-affairs/>

1) **Emergencies beyond students’ control** (i.e. illness, car accident, court appearance etc.).

The student must notify the instructor as soon as possible, preferably within 24 hours.

The student must provide written documentation to the instructor. It is the instructor’s

prerogative to accept the excuse or not.

- 2) **Students participating in authorized activities as an official representative of the University** (i.e., athletic events, delegates to regional or national meetings or conferences, participation in university-sponsored performances). The student must provide written confirmation from a faculty or staff advisor to the course instructor not fewer than 10 days prior to the date for which the student will be absent from the class, except in the case of short notice events. Written confirmation and explanation of short notice events must be provided to the instructor as soon as possible.
- 3) **Students with Military Obligations** that require their absence from class may seek an exemption from the class attendance policy. Students requesting an exemption should provide their military orders to the college Associate Dean, along with a request for an exemption prior to the start of the first week of classes. Working with the appropriate college Associate Dean, the student's instructors are contacted and made aware of the request for an exemption. The instructor will carefully consider all such requests and base their decision upon the course attendance policies and the student's ability to catch up on missed course materials upon return.
- 4) **Religious Observances:** The University permits students, faculty, and staff to observe those holidays set aside by their chosen religious faith. It is the responsibility of those who wish to be absent to make arrangements in advance with the instructor.

Whenever possible, the student may arrange to attend another lab section during the same week, with permission from the instructor.

Excused students will be given reasonable opportunities to complete assignments and exams or given compensatory assignment(s) if needed. The student is responsible for all material presented in lab and for all announcements and assignments. When possible, students are expected to complete these assignments before their absences.

- Laboratories cannot be made up outside of the scheduled sessions. Students are responsible to learn the lab content even if they received an excused absence.
- Student must maintain a laboratory notebook (or an electronic form) with drawings, descriptions, data etc. to complete graded in-lab activities and prepare for the practical exams.

LABORATORY CONDUCT

- It is assumed that all students will act in a mature manner in the classroom, showing consideration for their peers and the instructor. Any student who consistently distracts other students or the instructor will be removed from the course.
- No eating or drinking during the lab.
- Students must take good care of lab equipment. Notify the instructor if the equipment is not working properly or if something breaks during the lab.
- Each student will be assigned a microscope. It is the student's responsibility to properly use the microscope. Failure to do so will result in the subtraction of one point per incident from the course total points.

- Cell phones cannot be used in the laboratory, except for using them as timer or calculator when necessary.

ASSESSMENTS

Assessments will consist of **in-class activities, online weekly quizzes and three practical exams.**

In-class Activities (150 pts max)

During each lab there will be graded activities that might involve the practical demonstration of a laboratory skill (e.g., pig dissection), data analysis and presentation (statistical tests, graphs, drawings) and/or written questions (multiple choice, short answers, matching, true/false).

Weekly Quizzes (Embedded in the e-book manual; 250 pts max)

Each week there will be a pre-lab and a post-lab online quiz. You can find the pre-lab quiz link on the page before the Exercise section of the lab manual. The post-lab quiz link is after the Exercise section. Before each lab, please read the lab manual chapter and take the pre-lab quiz. Students will have one week prior to each lab to take the pre-lab quiz and one week after each lab to take the post-lab quiz.

- There will be no quizzes for the first lab of the semester (Lab 1-Statistics)

Note that we will start with the Animal section (Lab 7) after Lab 1.

The grade for each quiz will be automatically uploaded in the **gradebook within the online lab manual**. The percentage of correct answers will be used to calculate the grade.

Practical exams (600 pts max)

There will be three practical exams, two covering the animal section and one covering the plant section. The practical exams will be taken in the lab during the scheduled time.

Questions may include microscope slides, whole specimens, or images on PowerPoint slides.

Questions will be in the format of multiple choice, true/false, matching, or short answers.

Extra-credit points (50 pts max)

Extra credit points can be earned with additional in-lab activities provided by the instructor.

Grading

In-class activities: 150 points (15%)

Pre- and post-lab quizzes: 250 points (25%)

Practical exam 1: 200 points (20%)

Practical exam 2: 200 points (20%)

Practical exam 3: 200 points (20%)

Extra-credits: up to 50 points

Total Course Points: 1000

Grade calculation example:

$[(\text{In-class activities } 120 \text{ pts}) + (\text{quizzes } 230 \text{ pts}) + (\text{practical exams } 500) + (\text{extra-credits } 50 \text{ pts})] / 1000 \times 100 = 90\%$

Grade Scale

A = 90 - 100 %

B = 80 - 89 %

C = 70 - 79 %

D = 60 - 69 %

F < 60 %

Privacy Act (FERPA): The Family Educational Rights and Privacy Act (FERPA) prohibits the public posting of grades in any manner that would disclose a student identity. No grades can be given over the phone or over email because positive identification can't be made. All the grades will be posted on Blazeview.

Cheating or Plagiarism

Incidents of cheating or plagiarism will result in **an automatic F for the course and referral to the Office of Student Conduct for disciplinary action.** For VSU's Academic Integrity Code please see <http://www.valdosta.edu/administration/student-affairs/student-conduct-office/>

For VSU's Academic Honesty policies and procedure please see

<http://www.valdosta.edu/academics/academic-affairs/vp-office/academic-honesty-policies-and-procedures.php>

Learning Support

The Academic Support Center: The Academic Support Center provides free peer tutoring for most core courses and some upper-division courses. It also offers time management and study skills workshops as well as other learning support services.

Call 333-7570 to make an appointment, or visit the website: <https://www.valdosta.edu/asc/>

Odum Library provides a variety of services to assist classroom instruction, including library instruction, course reserves, and interlibrary loan. Please see <https://www.valdosta.edu/academics/library/> for further information.

Accommodations Statement

Students with disabilities who are experiencing barriers in this course may contact the Access Office (<https://www.valdosta.edu/student/disability/>) for assistance in determining and implementing reasonable accommodations. The Access Office is located in the University Center Room 4136, Entrance 5. The phone numbers are 229-245-2498 (V), 229-375-5871. For more information, please visit VSU's Access Office or email: access@valdosta.edu. To request reasonable accommodations for pregnancy and childbirth, contact Ms. Myia Miller, Title IX Compliance Officer, at maburden@valdosta.edu. Please note, you will be required to provide documentation from an appropriately licensed medical professional indicating the requested accommodations are medically necessary.

Non-Discrimination and Title IX Statement

Valdosta State University (VSU) upholds all applicable laws and policies regarding discrimination on the basis of race, color, sex (including sexual harassment and pregnancy), sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. The University prohibits specific forms of behavior that violate Title IX of the Education Amendments of 1972. Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs and activities that receive federal funding. VSU considers sex discrimination in any form to be a serious offense. Title IX refers to all forms of sex discrimination committed against others, including but not limited to: sexual harassment, sexual assault, sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment based on an individual's sex/gender. The designated Title IX Coordinator for VSU is Ms. Selenseia Holmes. To view the full policy or to report an incident visit: <https://www.valdosta.edu/administration/student-affairs/title-ix/>

Laboratory Schedule: BIOL 1108L, Principles of Biology II;
Spring Semester, 2024

Date	Topic	Notes
Jan 9-12	NO LAB	
Jan 16-19	Lab 1. Introduction to Basic Statistics	In room BC 3018
Jan 23-26	Lab 7. Diversity of Porifera, Cnidaria, Platyhelminthes, and Annelida	
Jan 30-Feb 2	Lab 8. Diversity of Mollusca, Nematoda, Arthropoda, Echinodermata, and Chordata	
Feb 6-9	Practical I- Animal Diversity (Lab 7-8) Lab 9. Introduction to Animal Tissues	
Feb 13-16	Lab 10. External and Internal Anatomy of the Fetal Pig	
Feb 20-23	Lab 11. Sensory Systems	
Feb 27-Mar 1	Lab 12. Cardiovascular System	
Mar 5-8	Practical II-Anatomy (Lab 9-12)	
Mar 12-15	Spring Break; No lab	
Mar 19-22	Lab 2. Nonvascular, Seedless Plants: Mosses, Liverworts, and Hornworts	
Mar 26-29	Lab 3. Vascular Plants: Ferns, Gymnosperms and Angiosperms	
Apr 2-5	Lab 4. Plant Cells, Vegetative Organ Structures, and Patterns of Growth	
Apr 9-12	Lab 5. Angiosperm Development	
Apr 16-19	Lab 6. Growth and Transpiration	
Apr 23-26	Lab Practical III (Plants)	