

BIOL 1107 Laboratory Sections G,K,O
Fall Semester 2022

Laboratory (BC 1085): Tue 9:30- 12:20 PM (G); Wed 9:00-11:50 AM (K); Thu 9:30 AM- 12:20 PM (O)

Instructor: Dr. Cristina Calestani
Office: BC 2085
Phone: (229) 333-7175
Email: ccalestani@valdosta.edu

Office hours:
Tue-Thu 2:00-4:30 PM
Or by appointment (please send me an email to my valdosta.edu account with “appointment” in the subject line).

Pre- or Corequisite: BIOL 1107 Principles of Biology I.

Course Description: A laboratory course to accompany BIOL 1107 lecture, with exercises dealing with the cellular nature of life.

Educational Outcomes:

This course supports the Department of Biology Educational Outcomes # 1-5 and the University General Educational Outcomes # 5 as listed in the VSU Undergraduate Catalogue.

Required Text

R.H. Goddard. 2013. Methods and Investigations in Basic Biology. Sixth Edition. Hayden-McNeil Publishing, Plymouth, MI.

ASSESSMENTS

Lab quizzes. Every week there will be an open notebook online quiz taken on Blazeview. The quiz will be based on material from the previous lab, which will be from the manual and/or material provided by the Instructor in lab and/or on Blazeview. Click on “Assessments” on the top menu, then click on “Quizzes”. **You will have one attempt for the quiz. Note that once you open the quiz, it will be considered one attempt, and, if you do not complete it, you will receive a zero grade.** Quizzes will be due the day of your lab, by 11:59 PM.

In-class activities. During each lab there will be graded activities that might involve the practical demonstration by the student of a laboratory skill (e.g., use of microscope, pipetting etc.) and/or written questions (multiple choice, short answers, matching, true/false).

Assignments: Assignment 1 will be a take-home assignment, Assignment 2 will be done during lab time. Guidelines for the assignments will be provided in advance by the instructor. See schedule for due dates.

Lab Notebook. Students are required to keep a lab notebook in a ½” 3-ring binder. Lab notebook is required to be able to answer the quiz questions. Guidelines on how to compile a notebook will be provided by the instructor.

GRADES

Quizzes (10 pts each): 110 pts
In-class activities 100 pts
Take-home Assignments 100 pts (50 points each)
Genome project presentation: 100 points

Total laboratory points: 410

Attendance Policy: Laboratory attendance is mandatory. Students who **miss three or more labs, with or without a documented excuse, cannot receive a lab grade above a 60% (D) for the course.** Attendance will be recorded using the first 10 minutes of lab.

There are no make-ups for the laboratories.

Only make-up quizzes will be administered. You must provide documented evidence that circumstances beyond your control prevented you from coming to the lab (e.g., note from a doctor without personal information, except for your name). It is the instructor's prerogative to accept the excuse or not. Failure to provide reasonable evidence will result in a grade of 0 for the quiz.

Behavior in the Classroom

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. **The use of cell phones is not allowed during the laboratory sessions** unless approved by the instructor for purposes related to the laboratory activities (e.g. as a timer or a calculator).

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>

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.

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 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 Christina Kidd, Student Conduct Coordinator at chkidd@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 Mr. Darius Thomas. To view the full policy or to report an incident visit: <https://www.valdosta.edu/administration/student-affairs/title-ix/>

TENTATIVE LABORATORY EXERCISES (Fall 2022):

Lab	Week of:	Topic:	Assignment due
1	Aug 15	Introduction to the course	
2	Aug 22	Introduction to the Scientific Method	
3	Aug 29	Basic Light Microscopy	Quiz 1 by 11:59 PM
4	Sept 5	Labor Day Week-NO LABS for any section	
5	Sept 12	Cellular Reproduction: Cell Cycle, Mitosis and Meiosis	Quiz 2 by 11:59 PM
6	Sept 19	Basic Pipetting and solutions preparation	Quiz 3 by 11:59 PM
7	Sept 26	Spectroscopy	Quiz 4 by 11:59 PM Assignment 1 due in lab
8	Oct 3	Genome sequencing project-DNA extraction	Quiz 5 by 11:59 PM
9	Oct 10	Fall Break-NO LABS for all sections	
--	Oct 17	Genome sequencing project-DNA Quantification and Electrophoresis	Quiz 6 by 11:59 PM
10	Oct 24	Genome sequencing project- Sequencing library; how to prepare a scientific presentation	Quiz 7 by 11:59 PM
11	Oct 31	Sequence analysis-Bioinformatics (computer lab)	Quiz 8 by 11:59 PM Assignment 2 done in lab
12	Nov 7	Enzymology- pH and Temperature	Quiz 9 by 11:59 PM
13	Nov 14	Photosynthesis	Quiz 10 by 11:59 PM
14	Nov 21	Thanksgiving break-NO LABS	
15	Nov 28	Group presentations of genome project	Quiz 11 by 11:59 PM