

BIOL 1107 Laboratory Sections C,D,E Spring Semester 2022

Laboratory (BC 1083): Tue 2:00- 4:50 PM (C); Wed 10:00-12:50 PM (D); Thu 9:30 AM- 12:20 PM (E)

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

Office hours:

Monday 5:00 PM-5:30 PM

Tuesday 10:00 AM- 12:00 PM

Wednesday 5:00 PM- 5:30 PM

Friday 11:00 AM- 12:00 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 a quiz taken during the first 15 minutes of each lab session (except for the first day of class). The quiz will be based on material from the previous lab and introductory material for the new lab, which will be from the manual and/or material provided in advance by the Instructor on Blazevue.

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).

Take-home Assignment: The take-home assignment will be a lab report on Exercise 4: Independent Microscopy Project. Guidelines for the report will be provided in advance by the instructor.

Lab Notebook. Students are required to keep a lab notebook in a ½” 3-ring binder. The lab notebook will be turned-in the last day of lab to be graded. Guidelines on how to compile a notebook will be provided by the instructor. Your notebook grade will be based on completeness, accuracy, and order.

GRADES

Quizzes (10 pts each): 110 pts

In-class activities 100 pts

Take-home Assignment 50 pts

Lab Notebook: 50 pts

Total laboratory points: 310

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 quizzes taken in lab.

If students must be absent due to a **quarantine or isolation requirement for COVID-19**, they must report via the COVID Self Reporting Link in MyVSU and through the [Dean of Students Office](#). Report any other type of absence as well to the Dean of Student Office, which will send an absentee notice by email to all your instructors.

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.

VSU COVID-19 Guidance for Spring 2022

Please visit this website for the current guidelines:

<https://www.valdosta.edu/health-advisory/coronavirus.php>

Learning Support

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.

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.

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 Office of Student Affairs.

TENTATIVE LABORATORY EXERCISES (Spring 2022):

Lab	Week of:	Topic:
1	Jan.10	Introduction to the course
2	Jan.17	MLK week- NO F2F LABS Exercise 1: Scientific Method due online in BlazeView before next lab
3	Jan.24	Lab Safety and Exercise 2: Basic Light Microscopy
4	Jan.31	Exercise 3: Light Microscopy Observations of cells and organisms
5	Feb.07	Exercise 4: Independent Microscopy Project; Group Proposal and experimental set up
6	Feb.14	Exercise 4 Cont'd: Independent Microscopy Project: Collection of Experimental Data (Individual Take-home Assignment due in lab the week of Feb 28)
7	Feb.21	Handout and Manual Appendix C: Basic Pipetting Practice Lab
8	Feb.28	Handouts and Manual Appendix D: Basic Dilutions and Spectroscopy Practice Lab
9	March 07	March 3- Midterm Exercise 6: Protein extraction & Quantification from living tissues
--	March 14	Spring Break- NO LABS
10	March 21	Exercise 7: Enzymology Lab: basics of α -amylase activity
11	March 28	Exercise 9: Photosynthesis
12	April 4	Exercise 10: Cellular Reproduction: Cell Cycle, Mitosis and Meiosis
13	April 11	Handout: Molecular Genetics of Paternity Testing
14	April 18	Genetic Paternity Testing Cont'd Exercise 14: Transformation of pGLO plasmid
15	April 25	Ex. 14 Cont'd- Analyze pGLO Transformations Turn-in Notebooks