

**BIOL 1107 Laboratory, Sections B,C,F and H  
Fall Semester 2019**

**Laboratory (BC 1083):**      **Section B Monday 12:00 pm- 2:50 pm**  
                                         **Section C Tuesday 9:30 am- 12:20 pm**  
                                         **Section F Wednesday 11:00 am- 1:50 pm**  
                                         **Section H Thursday 9:30 am- 12:20 pm**

**Instructor:**      Dr. Cristina Calestani  
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                                 Email: [ccalestani@valdosta.edu](mailto:ccalestani@valdosta.edu)

**Office hours:**  
                                 Tue-Thu 3 pm- 5 pm  
                                 Or by appointment (please send an email to [ccalestani@valdosta.edu](mailto:ccalestani@valdosta.edu) 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.** There will be a quiz during the first 15 minutes of each lab session (except for the first day of class). The quizzes will be based on material from the previous labs. Quizzes are open notebook, but the lab manual cannot be used.

**Lab Assignments.** There will be two assignments in the format of laboratory report.

Assignment 1: Independent Microscopy Project

Assignment 2: Investigation of the effects of temperature and pH on enzymatic activity

Specific information for each assignment will be provided during the lab.

**Lab Notebook.** Students are required to keep a lab notebook in a ½” 3-ring binder. The lab notebook will be used during the weekly lab quiz, and will be turned-in the last day of lab to be graded. Your notebook grade will be based on completeness, accuracy, and order. More information can be found in the lab manual.

## GRADES

Quizzes (11): 10 points each (110 points total)  
Lab Assignments (2): 50 points each (100 total)  
Lab Notebook: 100 points

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**Total laboratory points: 310**

*Extra-credits: 10 points max.*

Laboratory grade calculation: (Quizzes+ Assignments + Lab notebook + Extra-Credits)/310

**Attendance Policy: Laboratory attendance is mandatory.** Students who **miss three or more labs, with or without a documented excuse, will receive an F grade for the course.** Attendance will be recorded using the lab quiz (taken within the first 15 minutes).

**There are no make-ups for the laboratories.**

Only make-up quizzes will be administered at any time during the semester but you must provide documented evidence (e.g. note from a doctor) that circumstances beyond your control prevented you from coming to the lab. 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.

**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](mailto: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 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@valosta.edu](mailto:titleix@valosta.edu), 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

### Tentative Laboratory Schedule, BIOL 1107, FALL 2019

Lab	Day:	Topic:	Due Dates
1	Aug.19-22	Laboratory Introduction <b>Exercise 1:</b> Introduction to the Use of the Scientific Method	
2	Aug. 26-29	<b>Exercise 2:</b> Basic Light Microscopy	
--	Sept 2	Labor Day Week- <b>NO LABS</b>	
3	Sept. 9-12	<b>Exercise 3:</b> Light Microscopy Observations of cells and organisms <b>Exercise 4:</b> Proposal and Set Up for Independent Microscopy Project	
4	Sept. 16-19	<b>Exercise 4 Cont'd:</b> Data Collection for Independent Microscopy Project	
5	Sept. 23-26	<b>Exercise 5:</b> Cellular Water Relations	
6	Sept. 30-Oct 3	<b>Exercise 6:</b> Protein extraction & Quantification from living tissues	<b>Assignment 1 on Ex.4 due in lab</b>
--	Oct. 7-10 <b>Oct. 10-Midterm</b>	Fall Break- <b>NO LABS</b>	
7	Oct. 14-17	<b>Exercise 7:</b> Enzymology Lab: basics of $\alpha$ -amylase activity	
8	Oct. 21-24	<b>Exercise 8:</b> Enzyme Regulation: Investigation of the effects of temperature and pH on $\alpha$ -amylase activity	
9	Oct. 28-31	<b>Exercise 9:</b> Photosynthesis	
10	Nov. 4-7	<b>Exercise 10:</b> Cell Reproduction: Mitosis, Meiosis and Cytokinesis	<b>Assignment 2 on Ex. 8 due in lab</b>
11	Nov. 11-14	<b>Handout: Crime Scene, RFLP &amp; Gel Electrophoresis</b>	
12	Nov. 18-21	<b>Exercise 14:</b> Transformation of pGLO plasmid into bacteria	
--	Nov. 25-28	Thanksgiving Break- <b>NO LABS</b>	
13	Dec. 2-5	<b>Exercise 14 Cont'd-</b> Analyze pGLO Transformations Lab Assessment Exam (extra-credit)	<b>Turn-in Notebooks</b>