

**BIOL 1107 Laboratory, Sections I-J  
Fall Semester 2018**

**Laboratory (BC 1085):**      **Section I Wednesday 11:00 am- 1:50 pm**  
   **Section J Wednesday 2:00 pm- 4:50 pm**

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

**Office hours:**  
Mon 2:00 pm-4:00 pm  
Thu 10:00 am - 12:00 pm  
Or by appointment (please send an email to [ccalestani@valdosta.edu](mailto:ccalestani@valdosta.edu) with “appointment” in the subject line).

**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 enzyme activity  
Each assignment is worth 50 points. 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: 50 points

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**Total laboratory points: 260**  
*Extra-credits: 10 points max.*

Laboratory grade calculation: (Quizzes+ Assignments + Lab notebook + Extra-Credits)/260

**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 “D” (60%), and may get a failing 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 at the discretion of the instructor.

If you miss a lab 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 also result in a grade of 0 for the quiz.

**Classroom Accommodations**

Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office located in Farbar Hall. For the VSU’s Access Office contact information please see <http://www.valdosta.edu/student/disability/>

**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. **Cell phones must be turned off or set to silent mode in the classroom.**

**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 Student Success Center:** The Student Success Center (SSC) provides free peer tutoring in core courses, the top four of which are math, writing, Spanish, and biology/chemistry. It also offers time management and study skills workshops as well as provides free professional academic advising and on-campus job information in one location: Langdale Residence Hall. Help is available to all VSU students. 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 <http://www.valdosta.edu/academics/library/> for further information.

**Tentative Laboratory Schedule, BIOL 1107, FALL 2018****LABORATORY EXERCISES:**

<b>Lab</b>	<b>Day:</b>	<b>Topic:</b>	<b>Due Dates</b>
<b>1</b>	Aug. 15	Laboratory Introduction <b>Exercise 1:</b> Introduction to the Use of the Scientific Method	
<b>2</b>	Aug. 22	<b>Exercise 2:</b> Basic Light Microscopy	
<b>3</b>	Aug. 29	<b>Exercise 3:</b> Light Microscopy Observations of cells and organisms <b>Exercise 4:</b> Proposal for Independent Microscopy Project	
--	Sept. 5	Labor Day Week- <b>NO LABS</b>	
<b>4</b>	Sept. 12	<b>Exercise 5:</b> Cellular Water Relations <b>Exercise 4 Cont'd:</b> Set Up Independent Microscopy Project	
<b>5</b>	Sept. 19	<b>Exercise 4 Cont'd:</b> Data Collection for Independent Microscopy Project	
<b>6</b>	Sept. 26	<b>Exercise 6:</b> Protein extraction & Quantification from living tissues	
<b>7</b>	Oct. 3 <b>Oct. 4- Midterm</b>	<b>Exercise 7:</b> Enzymology Lab: basics of $\alpha$ -amylase activity	
--	Oct. 10	Fall Break- <b>NO LABS</b>	
<b>8</b>	Oct. 17	<b>Exercise 8:</b> Enzyme Regulation: Investigation of the effects of temperature and pH on $\alpha$ -amylase activity	<b>Assignment 1 on Ex.4 due by 5 pm</b>
<b>9</b>	Oct. 24	<b>Exercise 9:</b> Photosynthesis	
<b>10</b>	Oct. 31	<b>Exercise 10:</b> Cell Reproduction: Mitosis, Meiosis and Cytokinesis	
<b>11</b>	Nov. 7	<b>Handout: Crime Scene, RFLP &amp; Gel Electrophoresis</b>	<b>Assignment 2 on Ex. 8 due by 5 pm</b>
<b>12</b>	Nov. 14	<b>Exercise 14:</b> Transformation of pGLO plasmid into bacteria <b>Handout: Bioinformatics Exercise</b>	
--	Nov. 21	Thanksgiving Break- <b>NO LABS</b>	
<b>13</b>	Nov. 28	<b>Exercise 14 Cont'd-</b> Analyze Transformations Lab Assessment Exam	<b>Turn-in Notebooks</b>