

## **BIOL 1107L: Principles of Biology I Laboratory**

Department of Biology, College of Science and Math  
Valdosta State University

**Semester: Fall 2020**

**Instructor:** Ms. Dariana N. Rodríguez, Faculty

**Lab Room Number:** BSC 1085

### **Sections:**

**Section M: Wednesday 3-5:50 pm Session A: 3-4:20 Session B: 4:30-5:50**

**Section S: Friday 9-11:50 am Session A: 9-10:20 Session B: 10:30-11:50**

**Contact Information: Bailey Science Center Office Number 2210**

**E-mail:** [dnrodriguezkesle@valdosta.edu](mailto:dnrodriguezkesle@valdosta.edu)

**Phone:** 229-219-3594

**Office Hours:** Friday 12pm-1pm

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

**Pre- or Corequisite:** BIOL 1107 Unifying Principles of Biology I. Note a grade of C or higher is required in both lecture and lab.

**Course Objectives:** Upon completion of this course the student should be able to:

1. Develop and test hypotheses, collect and analyze data, and present the results and conclusions in written formats used in peer-reviewed journals.
2. Understand basic biological chemistry from elements to organic compounds to macromolecules.
3. Demonstrate an understanding of the cellular basis of life.
4. Relate the structure and the function of DNA/RNA to the development of form and function of the organism and to heredity
5. Understand energy transformation in biological systems through the study of photosynthesis and other metabolic reactions

See Department of Biology Educational Outcomes and the University General Educational Outcomes as listed at the end of this syllabus

### **Required Materials:**

1. **Textbook:** Goddard, R. H. 2010. Methods and Investigations in Basic Biology. 6th edition. Hayden-McNeil Publishing, Plymouth, Michigan.

### **Laboratory Assignments and Grading:**

Students will be graded on their performance in laboratory based on attendance, quiz grades, selected homework assignments, and other assignments as specified by your instructor.

**Lab Quizzes (120 points):** Quizzes will be administered online **weekly** via Blazeview. They will be 10 questions in length and will be a mixture of multiple choice and true/false questions. Quiz questions and responses will be randomized and shuffled so that each quiz is unique. Quizzes will be timed to ensure that you know the information and are not using other resources to answer the questions. Quizzes will open the Monday of each lab week and will close the following Monday at 11:59 AM. You will only be allowed one trial per quiz. A quiz schedule will be posted on Blazeview under “Course Overview.”

**Lab Assignments (100 points):** Information for each assignment will be provided in lab.

- 1) A1 Microscopy Project (50 points): You will develop and complete an experiment and write a summary of the group lab results in standard scientific format. Further information will be provided in lab. All students are required to complete this assignment.
- 2) A2 Enzymology report (50 points): Each student will complete a short report on data collected during Exercise 8 Enzymology: Investigation of the effects of temperature and pH on enzyme activity. This will be a data intensive project where you will create and interpret graphs. Further information will be provided in lab. All students are required to complete this assignment.

**Lab Reports (70 pts):** Students will be expected to complete two lab reports throughout the semester. These reports will follow the guidelines students will learn from the scientific method and must have the following: Title, Purpose (Introduction), Hypothesis, Materials & Methods, Results (Figures or Tables), and a Conclusion. The students will have the freedom to choose the two labs they will be completing lab reports for but will have the following due dates:

Report #1: Due by October 11 at 11:59 PM in Turn-it in

Report #2: Due by November 22 at 11:59 PM in Turn-it in

**Attendance (65 pts):** Students will be expected to view weekly PowerPoints prior to coming to class to ensure that they are prepared for that day’s experiment. This will be expected of both online and face-to-face labs. PowerPoints will be posted in Blazeview and the instructor will be able to view a time stamp of when the files were accessed by students. Students will need to have accessed the files PRIOR to class in order to receive their 5 pts for attendance.

**Attendance Policy:** “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” – 2019-2020 Undergraduate Catalog  
Also, as stated in the Undergraduate Catalog, “the University does not issue an excuse to students for class absences. In case of absences as a result of illness or special situations, instructors may be informed of reasons for absences, but these are not excuses”. I will consider all absences on a case-by case basis.

Students who miss **3 or more labs** during the course of the semester could be subject to the stated policy. If you are absent from lab or know you will be absent from lab, please contact me **within 24 hours** with the reason. If I consider it an excused absence, I may be able to give you an opportunity to attend another lab session during that same week.

No labs can be made up once the week has ended.

Athletes and other University representatives: Please let me know in advance if you will be missing a lab due to an away game or other required event. We can make arrangements for you to attend an alternative lab section.

**Lab Conduct:**

1. Please arrive on time. If you are late and the quiz has started, you will not be given additional time to complete it.
2. You **MUST** wear a face covering for face-to-face meetings per University policy
3. No eating or drinking in the lab is allowed.
4. You must take care of lab equipment. Notify the professor if something is not working properly or if something breaks during the course of the lab.
5. You will be assigned a microscope. It is your responsibility to properly use the microscope. At the conclusion of the lab I will check each scope to make sure that it was put away properly. Please notify me if the microscope is not functioning properly.
6. Cell phones are not to be used in lab. This means no texting during the lab unless I give permission for cell phones to be out. I will deduct points if cell phones are in use without prior permission.
7. A laboratory course is a collaborative effort. You will often work with your lab group or a lab partner. Please be prepared for lab each week and be fully engaged in the lab experiments.

**Academic Integrity:** By taking this course, you agree that all required course work may be subject to submission for textual similarity review to Turnitin, a tool within BlazeVIEW.

Mid-term, or in-progress grades: The instructor is required to submit in-progress grades prior to mid-term (October 10, 2019). I will, in general, assign an overall average grade at this point on the normal scale of A-F viewable on Banner. Students receiving a grade of "D" or lower should therefore carefully evaluate their option of dropping this course by midterm without academic penalty. The deadline for withdrawal through Banner is October 17, 2019.

Biology Tutoring: The Academic Support Center (ASC) at Valdosta State University is located on the second floor of the Odum Library. The ASC provides free peer tutoring in core curriculum courses, including biology. Call 333-7570 to make an appointment, or visit their website at <https://www.valdosta.edu/asc/>

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.

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.

Campus Gun Carry Statement (HB 280): If you choose to carry a concealed weapon on campus, you are responsible for knowing and following the law. Refer here for FAQ: <https://www.valdosta.edu/administration/finance-admin/police/campuscarry/>

SOI Statement: At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available through SmartEvals. Students will receive an email notification through their VSU email address.

### **Coronavirus Resources for Students:**

VSU cares about student success both on and offline, and a variety of resources are available to help students both academically and personally during the Fall 2020 semester.

One of the best resources is VSU's Coronavirus FAQ page located at <https://www.valdosta.edu/health-advisory/faq.php>. Information is available there about a variety of topics in VSU's return-to-campus plan. A website devoted to the health and wellness of VSU students can be seen at <https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php>.

You can find information, including how you can access the Brightspace Pulse app that will allow you to view BlazeVIEW on your smartphone at <https://www.d2l.com/products/pulse/>. In BlazeVIEW, all VSU students have a course with guides for how to use tools in BlazeVIEW; search for "VSU BlazeVIEW Student Tutorial 2020."