

BIOL 1107L: Principles of Biology Laboratory I (0-3-1)
Valdosta State University, Biology Department, College of Science & Math
Spring 2024: Laboratory Syllabus

Instructor: Dr. Brian C. Ring, Professor of Biology

Office Hours (BC 2084): M & W 10:00 a.m. - 1:00 p.m. **Phone:** 249-4841 **Email:** bcring@valdosta.edu
Please use BlazeView course email first

Laboratory Sections: F (CRN # 26740): R / 9:30 a.m. -- 12:20 p.m. – BC 1083

Pre- or Corequisite: BIOL 1107 Unifying Principles of Biology I. Note a grade of C or higher is required in both these lectures and labs.

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

Required Laboratory Manual: R. H. Goddard. *Methods and Investigations in Basic Biology* (Custom VSU manual). 7th Edition.

Required Laboratory Notebook & Brief Instructions: A dedicated 3-Ring or spiral or bound notebook must be maintained for deposition of each laboratory exercise following the guidelines in the above lab manual (see introduction for details). Students must include a table of contents with numbered pages for each lab exercise. In addition, each lab entry in the dedicated notebook must provide a title, introduction, materials and methods, results in the form of collected data (i.e. Tables) or drawings and graphs (i.e. Figures). This is followed by a summary of what principles or hypotheses were learned through experimentation in the conclusion of each laboratory entry. More instructions will be provided by your instructor but note this notebook must always be present with you during lab sessions for data collection and inspection by your instructor- just like a scientist would do.

Laboratory Reports/Papers: Two papers will be assigned in laboratory covering assigned labs. Instructions for writing papers are found in the laboratory manual under **Appendix B** and your instructor will provide additional guidance in the laboratory and/or on BlazeView (BV). Papers may be handed in as hard copy or through BV *TurnItIn* online.

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

- 1) Exhibit a broad perspective on the principles unifying various biological disciplines from evolution to molecular biology (DBEO 2 & 5);
- 2) Understand basic biological chemistry from elements to organic compounds to macromolecules;
- 3) Comprehend basic principles of biology at the cellular level to include structure, function, metabolism, communication, reproduction, molecular biology, and gene expression (DBEO 3 & 4);
- 4) Perform, analyze, interpret, and report laboratory experiments (DBEO 1);
- 5) Develop and test a hypothesis using experimental microscopy and quantitative skills acquired in the laboratory (DBEO 1 & 5).

These objectives support the Department of Biology Educational Outcomes # 1-5 listed above (DBEO 1-5) and the University General Educational Outcomes # 5 as listed in the VSU Undergraduate Catalogue.

Laboratory Grading: The laboratory course schedule is found in the table below. Your laboratory grade is computed as a percentage across categories listed in the table below and more details can be found in the D2L BlazeView (BV) course site. Quizzes are given weekly at the beginning of lab and if you are late you may be marked as tardy, but there are no make-up quizzes. Notebook checks are listed thrice during the semester and are performed either during class time as indicated or at the discretion of your instructor(s) in or outside of laboratory time (e.g. collected by your instructor for grading and return). Two laboratory papers will be assigned based on results collected in the laboratory for Exercise 1 (Scientific Method) and Exercise 8 (Enzymology Lab, page 85). More details will be described by your instructor and posted on BV.

Grade Calculation		Grade Distribution		
Category	Possible Weight	Letter	Percentage	Point Range
Lab Quizzes	50%	A	90-100%	

will be posted through BlazeView course website.

Biology Tutoring: The Academic Success Center (ASC) at Valdosta State University is located in the Odum Library and is available to all students. The ASC provides free peer tutoring in core curriculum courses, including biology, chemistry, math, writing, and foreign languages. The SSC also provides free professional academic advising and on-campus job information in one location. Call 333-7570 to make an appointment, or visit the website: www.valdosta.edu/asc.

Access Office: Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY) or visit the website or email 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 sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, 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: the Director of the Office of Social Equity, titleix@valdosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31698, 229-333-5463.

Campus Gun Carry Statement (HB 280): If you choose to carry and 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 when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous to instructors/administrators, and they will be able to access results only after they have submitted final grades. Before final grade submission, instructors will not be able to see any responses, but they can see the percentage of students who have or have not completed their SOIs. While instructors will not be able to see student names, an automated system will send a reminder email to those who have yet to complete their SOIs. Students who withdraw or drop a course will also be sent invitations to complete the Dropped Course Survey. Complete information about the SOIs, including how to access the survey, is available on the SOI Procedures webpage.

