

Principles of Biology Lab I - BIOL 1107L (Spring, 2022) Section F (CRN: 24673)

1. Course Information

- Hours of credit: 1
- Lab location and time: Bailey Science Center 1083
- Time: 2:00 pm - 4:50 am, Thursday

2. Instructor Information

- Instructor name: Dr. Jonghoon Kang
- Instructor contact: BC 2217, 229-333-7140, jkang@valdosta.edu
- Instructor office hours: Wednesday 3:00 PM - 5:00 PM or by appointment

3. Course Description

Required materials

- Lab notebook (Any regular notebooks are fine)
- BlazeView

4. Lab Conduct (Policies)

- Arrive on time. Students who miss **two labs** without an excuse or **three labs total** cannot receive a lab grade above a "D" (60%). Attendance will be recorded using the lab quiz, which will be given the **first 10 minutes** of the lab. So, **please be on time**. In the event that a student misses a lab with an excuse, s/he should email the instructor within 24 hours of the missed lab. Excused absences are usually given for medical emergencies and documentation must be provided; the professor determines whether or not an absence is "excused" or not. Students are still responsible for all lab content even if they received an excused absence.

- It is strongly advised to maintain a laboratory notebook with drawings, descriptions, data etc. of the laboratory exercises. **A dedicated notebook is required**. The notebook will help you study for the quizzes.

- No eating or drinking in the lab.

- Students 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.

- Each student will be assigned a **microscope**. It is the student's responsibility to properly use the microscope. After lab the professor will check each scope to make sure that it was put away properly. Failure to do so will result in one point being subtracted from the student's final lab points. Notify the professor if your microscope is not functioning properly.

- Cell phones are not allowed to be used in lab with the exception of using them as timers or cameras to take pictures of data when necessary.

- Email: Please email me only from a VSU email account. I am unable to respond to emails from non-VSU accounts.

-Academic integrity is the responsibility of all VSU faculty and students. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and

the syllabus. All students are expected to do their own work and to uphold a high standard of academic ethics. **Cheating** (including plagiarism) will not be tolerated. The instructor reserves the right to dismiss you from the course without credit if you are caught cheating. You will be respectful of your instructor and your fellow students at all times, or you will be dismissed from the class and potentially the course.

- **Print out this syllabus and keep it in your lab notebook.**

5. Lab Assignments and Evaluation Policy

Throughout the semester lab assignments will be given. Due dates of these assignments are shown in the lab schedule table in this syllabus.

12 quizzes (120) + Research report (10) = 130

Final (%) = Sum/1.3

Grading criteria

A ≥ 90; B ≥ 80; C ≥ 70; D ≥ 60; F < 60

Lab quizzes. There will be a 10-point quiz at the beginning of each lab session, so do not be late for lab! The quizzes will be based on material from the previous labs. If there is an error with your quiz grade you must contact me on the week the quiz is given, as grades will become final by the following week. If you miss taking quizzes for any reason, there is an opportunity for you to make up them. However, you will get a **credit of 70% of your scores from make-up quizzes** unless you provide me official documents to excuse your failure to take the quizzes at the scheduled time.

Lab Assignments. There will be one assignment. It is worth 10 points. Questions regarding assignment grades must be made during the week the grade has been given to you, as grades will become final by the following week. The Assignment is due at the start of class unless otherwise directed. Late assignments may be accepted but with a **deduction of scores at a rate of 1 point per day.**

Lab Notebook Format: (You can use **your own lab notebook** while taking quizzes, so it is very important to maintain your notebook in a good shape)

1. Title and Date
2. Introduction
All my writings on the board or presentation before experiments.
3. Materials and Methods
Record the materials and procedure of your experiments
4. Results
Record the results of your experiment, including every pertinent detail. Always transfer your group's results to your lab notebook. This includes recreating any tables or graphs from your lab manual in your lab notebook.
5. Discussion
Answers to the questions you asked in Introduction as well as your own interpretation of the results you obtained.

6. Additional Statements

Accommodations Statement

Students with documented 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. For more information, please visit VSU's Access Office 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 Interim Title IX Coordinator: Ms. Selenseia Holmes, titleix@valdosta.edu, Student Union, Suite 3106, Valdosta State University, Valdosta, Georgia 31698, 229-333-5941. To file a report (not make an inquiry) please visit https://cm.maxient.com/reportingform.php?ValdostaStateUniv&layout_id=7.

Academic Integrity: You know that cheating is a bad thing to do. Students caught cheating will receive a grade of F for the test in question and will be reported to the Dean of Students. You are expected to follow VSU's Academic Integrity Code.

From VSU's Academic Integrity Code (the full code is available at <https://www.valdosta.edu/academics/academic-affairs/academic-honesty-policies-and-procedures.php>)

"Academic integrity is the responsibility of all VSU faculty and students. Faculty members should promote academic integrity by including clear instruction on the components of academic integrity and clearly defining the penalties for cheating and plagiarism in their course syllabi. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the faculty members' syllabi. All students are expected to do their own work and to uphold a high standard of academic ethics."

Classroom demeanor or conduct: Every student should make the lecture a comfortable and enjoyable learning experience. Late entry to the class room or leaving early are not desirable behaviors. Common sense should be practiced and expected.

7. TENTATIVE LAB SCHEDULE AND TOPICS

Date	Lab	Topic	Assignments
1/13	0	Syllabus and General Lab Introduction	
1/20	1	Basic Statistics	
1/27	2	Basic Light Microscopy – Principle	Quiz 1
2/3	3	Basic Light Microscopy – Cells and Organelles	Quiz 2
2/10	4	Basic Light Microscopy – Research A1 (research report)	Quiz 3
2/17	5	Special Topic: Mathematics for Biology	A1 due
2/24	6	Pipetting – Principle and Practice	Quiz 4
3/3	7	Dilution & Spectroscopy	Quiz 5
3/10	8	Protein Extraction and Quantification Extra-credit Assignment (Due: March 24)	Quiz 6
3/17		<i>Spring Break</i>	
3/24	9	Enzymology	Quiz 7
3/31	10	Photosynthesis	Quiz 8
4/7	11	Cellular Reproduction	Quiz 9
4/14	12	Handout (BV): Molecular Genetics of Paternity Testing	Quiz 10
4/21	13	Genetic Paternity Testing Cont'd Transformation of pGLO plasmid	Quiz 11
4/28	14	Analyze pGLO Transformations	Quiz 12 Make-up quizzes

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q12	A1	Extra	Sum

Important dates

January 13	Registration for spring 2022 ends (11:59pm)
January 18-21	Attendance Verification for VSU courses that begin on January 10
January 21	Attendance Verifications due at 9am
Feb 16-Mar 2	In-progress Grade Entry for full-term VSU courses
March 3	Official Midterm for spring 2022
March 3	Students View In-progress Grades
March 10	Withdrawal Deadline for full-term VSU courses
March 14-18	Spring Break (university open)
May 9	Students View Final Grades in Banner after 5pm