

## 1. Course Information

- ξ Course number and section: BIOL 1107K (Section: L, M, or N) CRN: 82064, 82065, or 82066
- ξ Course name: Principles of Biology I Lab
- ξ Hours of credit: 4
- ξ Lab location and room number: Bailey Science Center 1085
  - Section L: Thursday 9:30 am - 12:20 pm
  - Section M: Thursday 1:00 pm - 3:50 pm
  - Section N: Friday 9:00 am - 11:50 am

## 2. Instructor Information

- ξ Instructor name: Dr. Jonghoon Kang
- ξ Instructor contact: BC 2217, 229-333-7140, [jkang@valdosta.edu](mailto:jkang@valdosta.edu)
- ξ Instructor office hours: M & W 2:00 PM - 3:00 PM

## 3. Course Description

### Required materials

- ξ Lab Manual: Goddard, R.H. 2013. Methods and Investigations in Basic Biology. 6th edition.
- ξ Calculator
- ξ Lab notebook

## 4. Lab Conduct (Policies)

- Arrive on time. Students who miss two labs without an excuse or three labs total cannot receive a lab

- 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.

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#### 5. Lab assignments and Lab Practical Exams:

Throughout the semester lab assignments will be given. Due dates of these assignments are shown in the lab schedule table in this syllabus. No late assignments will be accepted (see above).

#### 6. Assessment or Evaluation Policy

BIOL 1107 is a 4 credit course, and the Lab section of the course will contribute to your course grade. For the degree of contribution see the syllabus of the lecture class.



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

explicitly about the learning process. Your lab notebook will be one way in which you formally THINK about how you are learning from lab.

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alone record of the experiment.

ξ Number every page.

ξ Every entry begins with the date in MM/DD/YYYY format and the time of day.

ξ Keep a table of contents in the front of your lab notebook that is updated every week.

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ξ Begin each lab on a new sheet of paper.

Follow this format, you will be graded on having an entry for each numbered item in the following guidelines. Some labs may require additional information and sections, but all labs will have the following items unless you are told otherwise.

1. Title and Date (1 pt)

Use this title in the Table of Contents in your lab notebook

2. Purpose/Objectives (1 pt)

Scientific purpose not educational one

3. Introduction (2 pt)

Theory, hypothesis, and prediction etc

4. Materials and Methods (2 pt)

5. Results (2 pt)

Record the results of your experiment, including every pertinent detail. Always transfer your

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manual in your lab notebook.

6. Discussion/Conclusions (2 pt)

What was the one most significant thing you learned in the laboratory? Was this what you expected to learn (see Purpose/Objectives #2)? What else did you learn?

Explain how the results support or do not support your hypothesis. If you do not understand your results, explain why you cannot explain the results, and what you need to know to be able to explain them. Be specific.

What further questions do you have on the subject now that you have finished the exercise? Do the results make you think of any other questions in general about the subject?

What further experiments can you suggest to carry out now that you have finished this experiment?

7. TENTATIVE LAB SCHEDULE AND TOPICS

Date	Topic	Assignments
Aug 17, 18	Lab Safety, General Lab Introduction, and Lab Notebooks	
Aug 24, 25	: Introduction to the Use of the Scientific Method	
Aug 31, Sept 1	: Basic Light Microscopy	Quiz 1
Sept 7, 8	Labor Day Week †No Lab	
Sept 14, 15	Observation of Living Cells with Light Microscopy. Independent microscopy lab proposals discussion	Quiz 2 Read Appendix A Assigning A1
Sept 21, 22	Basic Mathematics for Biological Sciences	Quiz 3
Sept 28, 29	: Independent Group Microscopy Project	Quiz 4 Read Appendix B Assigning A2
Oct 5, 6	: Protein Extraction and Quantification from Living Tissues;	
Oct 12, 13	Fall Break †No Lab	
Oct 19, 20	: Enzymology: alpha amylase activity	Quiz 5

Oct 26, 27

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## 8. Classroom Policy

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. For more information, please

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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