

## Principles of Biology I - BIOL 1107K (Fall, 2014) Section G

### 1. Course Information

- Course number and section: BIOL 1107K (section: G) CRN: 81733
- Course name: Principles of Biology I
- Hours of credit: 4
- Lab location and room number: Bailey Science Center 1083, Monday 9:00 am - 11:50 am
- Department, College, University: Department of Biology, College of Arts and Sciences, Valdosta State University

### 2. Instructor Information

- Instructor name: Dr. Jonghoon Kang
- Instructor contact: BC 2217, 229-333-7140, jkang@valdosta.edu
- Instructor office hours: T & R 9:30 am - 11:00 am (You may discuss course-related issues)

### 3. Course Description

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

### 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, do not be late to lab. In the event that t TJ-0.008 Tw -0.533 -1.217 Td(lab)2(o)-7(rat)8(o)-7(ry)-5(

- Each student will be assigned a microscope. It is the student's responsibility to care for the microscope. After lab the professor will check each scope t

Failure to do so will result in one point being subtracted from the student's total lab points (not the final percentage) each week it is not put away properly. 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 itd

notebook will be able to replicate your activities. In other words, details are important! If you add 10mL of 0.1 M HCl to 200mL of water, don't write down "added HCl to water", because it would be unclear what concentration the HCl was, how much you added, and how much water you added it to. Your notes should be a full and complete record of your activities in lab.

- We are also going to use your lab notebook for exercises in metacognitive learning. Studies have shown that students have improved understanding and memory when they think explicitly about the learning process. Your lab notebook will be one way in which you formally THINK about how you are learning from lab.
- You will often be working in groups, but each individual's lab notebook should be a stand-alone record of the experiment.
- Number every page
- Every entry begins with the date in MM/DD/YYYY format and the time of day
- Keep a table of contents in the front of your lab notebook that is updated every week
- If you make a mistake, just cross it out; don't remove pages
- Begin each lab on a new sheet of paper

Lab Notebook Format: 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 group's results to your lab notebook. This includes recreating any tables or graphs from your lab 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?

