



Valdosta State University, Department of Biology

BIOL 1108K: Principles of Biology II (Lab syllabus) Spring 2014

Instructor: Dr. Joshua S. Reece

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Office hours: Wednesdays 11-1pm, and by appointment

This syllabus will apply to the following sections (all sections will meet in BSC 1073)

Section I: Tuesday 2pm-450pm

Section B: Wednesday 8:00am-10:50pm

Section D: Wednesday 2pm-4:50pm

Section E: Thursday 9:30pm-12:20pm

Course Overview

Welcome to Bio1108 Lab. This course is a required companion to the lecture portion of Bio1108. The laboratory exercises in this course will complement the material presented in lecture. This course will be an introduction to physiological processes in plants and animals and will explore topics in organismal structure, nutrition, transport, coordination, reproduction, and development.

Course Objectives (for full course)

The primary goal of this course is to introduce you to the physiological processes of plants and animals. By the end of the semester students should have sufficient background to successfully complete higher level courses that will cover specific topics in much greater detail.

The Department of Biology seeks to help develop general skills, such as communication skills and information processing skills. Communication skills will be exercised through laboratory assignments, lab practicals, and lecture exams.

Learning goals include:

- Increase your understanding of structure-function relationships in biology
- Increase your understanding of the physiology of the major systems in plants and animals including:
 - Structure/function relationships
 - Nutrition
 - Transport
 - Movement
 - Reproduction
 - Development
 - Sensory systems
- Strengthen your ability to critically analyze scientific data and test scientific hypotheses
- Cultivate the linkage of biology with math, physics and chemistry.

These goals support the Department of Biology Education Outcome #2, #3 and #5 and VSU General Education #5.

Course Prerequisites

Bio1107 or permission of the instructor.

Course Credits

BIOL 1108 is a 4 credit course, and the Lab section of the course will contribute 25% of your grade.

Required Texts and Materials

Principles of Biology II Lab Manual by T.J. Grove.

Basis for Final Grade

The lab portion of your grade will be based on 200 total points broken down as follows:

Quizzes (5): 50 points

Lab assignments (2): 50 points

Lab Practical (2): 100 points

Extra credit will be assigned at my discretion.

Your lab grades will be posted to the BIOL 1108 section Grade Book on Blazeview. Assignment grades will be made available the week after they are due unless otherwise indicated. Students will have until the end of the following week to contest any grades; after that time grades are final. Any questions about grades must be made in writing through my VSU email (NOT the Blazeview email).

Lab quizzes. Lab quizzes will be given at the beginning of class. They will be unannounced and will be based on material from the previous labs and the current lab, so you are required to read the lab for each day **BEFORE** coming to class. Quizzes are open notebook, but the lab manual may not be used. Grades for lab quizzes will be available at the end of each week on Blazeview, unless otherwise noted. 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.

Lab Assignments. Each assignment will be associated with a specific rubric. 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. Assignments are due at the start of class, and will not be accepted late.

Lab Notebook. Students are encouraged to keep a lab notebook in a 1/2" 3-ring binder. The lab notebook may be used on weekly lab quizzes. Your lab notebook will help you do well on quizzes and study for lab practicals, but it is your choice to keep one. If it isn't in a 1/2" 3-ring binder then you do not get to use it on your quiz.

Attendance Policy: Students who miss three labs total cannot receive a lab grade above a "D" (60%). Attendance will be recorded during the first 10 minutes of the lab. So, do not be late to lab. 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. It is the instructor's prerogative to accept the excuse or not. **Absolutely no laboratories can be made up, and no work will be accepted late.** If you are more than 15 minutes late, you may not be allowed to enter the lab, so please be on time.

Student Conduct

- You will be respectful of your classmates and your instructor. Cell phone use is not allowed during lab for any reason or at any time. You may think you are clever and can hide the phone beneath the table while you check text messages. You are not that clever, trust me, so please do

not waste class time demonstrating your lack of cleverness. One point will be taken off of your quiz if a cell phone is observed during lab for any purpose. Refer to the lab manual for lab rules.

- 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 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.
- No eating or drinking in lab. If you have a drink, it must be in a sealed container inside of a bag. If I can see it, it must go outside of the lab. If you are thirsty, you may take your bag outside, drink your drink, put it back in your bag, and then reenter 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

Course Policies: Technology and Media

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

Classroom Devices: As noted above, you may NOT use your cell phones in class under any circumstances. Please bring calculators when needed. Timers will be made available when necessary.

Lab Conduct

Accommodations 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 Farber Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (Video Phone), and 229-219-1348 (TTY). For more information, please visit <http://www.valdosta.edu/student/disability> or email access@valdosta.edu.

Academic Integrity

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.

Tentative Laboratory Schedule, BIOL 1108, Spring 2014

LABORATORY EXERCISES:

Week of:	Topic:
Jan 13	NO LAB
Jan 20	NO LAB
Jan 27	How to use Excel to Analyze Basic Biological Data (meet in computer lab BSC 3018) (Lab 1)
Feb 3	Diversity of Porifera and Cnidaria (Lab 8a) AND Introduction to Animal Tissues (Lab 8b)
Feb 10	Diversity of Platyhelminthes (Lab 9a) AND External and Internal Anatomy of the Fetal Pig (Lab 9b)
Feb 17	Diversity of Annelida and Mollusca (Lab 10a) AND Introduction to Sensory systems (Lab 10b)
Feb 24	Diversity of Nematoda and Arthropoda (Lab 11a) AND Cardiovascular Systems (Lab 11b)
March 3	Diversity of Echinodermata and Chordata (Lab 12a) AND Introduction to Excretory System (Lab 12b)
March 10	Animal Lab Practical
March 17	Spring Break- NO LAB
March 24	Non-vascular Plants (Lab 2)
March 31	Vascular Plants (Lab 3)
April 7	Roots, Stems and Leaves (Lab 4)
April 14	Angiosperm Development (Lab 5)
April 21	Growth and Transpiration (Lab 6)
April 28	Plant Lab Practical