

BIOL 1108 Principles of Biology I Laboratory Syllabus (Summer 2016)

Instructor: John Elder

Office: 2088 Bailey Science Center

Office hours: T,TH 8:00 to 9:30 am M,T,TH, F, or by appointment

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Section: A Tuesdays and Thursdays 11:10 am -2:00 pm , Room 1083 Bailey Science Center

Text: Laboratory Manual: Goddard, R.H. Current edition.. Methods and Investigations in Basic Biology, 5th ed. Hayden-McNeil Publishing, Plymouth, MI.

Lab assignments, and quizzes.

Throughout the semester lab assignments, homework assignments and quizzes will be given. No late assignments will be accepted. No make ups will be accepted except in emergency cases at the instructor's discretion.

Lab Conduct:

- **Cell phones are not allowed** to be used for texting in lab. Using phones to goof off during lab will result in a 0 for the day – same as a missed lab – 3 will result in failing the course.
- No eating or drinking during the lab.
- Arrive on time. Assignments are due at the start of lab. Students arriving 10 minutes late will not be able to turn in assignments and will receive a zero (0) on those assignments. No late assignments will be accepted.
- Attendance to lab is mandatory. Excused absences are usually given only for medical or family emergencies and documentation must be provided. In these cases the professor determines whether or not an absence is “excused” or not. **If a student misses three labs for any reason the student cannot earn higher than a “D” for his/her final grade for the 1108 course.** Labs cannot be made up outside of scheduled laboratory sessions. Students are still responsible for all lab content and assignments even if they received an excused absence.
- 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 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.
- It is strongly advised to maintain a laboratory notebook with drawings, descriptions, data etc. of the laboratory exercises. The only requirements of the notebook are that it be a spiral bound notebook. The notebook will help you study for the practical exams.
- Study the materials – you will see them again on quizzes and exams.

Disruptive behavior: No disruptive behavior of any kind will be tolerated in this course. Students should restrict talking and discussion to pertinent questions related to course material and these questions should be directed toward the instructor. Entering a classroom late or early is discouraged. Any student disrupting lectures will be required to leave the classroom. Use of cellular telephones, pagers, or any similar remote communication device is prohibited during scheduled lectures, laboratories, or examinations. If students bring cellular telephones or similar devices to lecture, it is their responsibility to switch them off prior to the beginning of the lecture period. See your student handbook for specifics constituting disruptive behavior.

Cheating: Students caught cheating will receive a grade of “F” for the assignment in question and possibly for the course.

Cheating will be reported to the Dean of Students. See your Student handbook for what constitutes catalogue cheating and plagiarism. See the student handbook for specifics constituting academic dishonesty and consequences. .

Student identification: Students should have in their possession at all times their VSU student identification card. In order to verify the identification of students officially enrolled in the course, it is the instructor's prerogative to request official student photo identification cards at any time during lecture. During examinations, students will routinely be asked to display their VSU student identification cards visibly on the desk top and to make them available for inspection by their instructor and/or assistants.

Privacy Act (FERPA): The Family Educational Rights and Privacy Act (FERPA) prohibit the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given by email or over the telephone, as positive identification cannot be made by this manner.

Students with Disabilities: Students requesting classroom accommodations or modifications because of a documented disability must contact the Access Office for Students with Disabilities located in room 1115 Nevins Hall. The phone number is (229) 245-2498.

Biology Tutoring: The Student Success Center (SSC) at Valdosta State University is located in Langdale Residence Hall above the Tech Shop and is available to all students. The SSC 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/ssc.

BIOL 1107K: Unifying Principles of Biology

Valdosta State University, Summer 2016: Laboratory Syllabus

TENTATIVE LABORATORY EXERCISES:

Lab	Week of:	Topic:
1	June 9	Introduction to the Lab, Safety, and Laboratory Notebooks Exercise 1: Introduction to the Use of the Scientific Method
2	June 14	Exercise 2: Basic Light Microscopy
3	June 16	Exercise 3: Light Microscopy Observations of cells and organisms; Basic "5 Kingdom" levels of organization.
4	June 21	Exercise 5: Cellular Water Relations
5	June 23	Exercise 4: Independent Microscopy Project A1 Due: Group Proposal (end of class)
6	June 28	Exercise 4 Cont'd: Independent Microscopy Project: Data collection lab; Distribution of microscopic flora and fauna. A2 Due: Exercise 4, Summary of Group Results (end of class), See Appendix B
7	June 30	Exercise 6: Protein extraction & Quantification from living tissues Read Appendix C & D
8	July 5	Exercise 7: Enzymology Lab: basics of α -amylase activity A3 Due: Group Research Paper (Exercise 4)
9	July 7	Exercise 8: Enzyme Regulation: Investigation of the effects of temperature and pH on α -amylase activity
10	July 12	Exercise 10: Cellular Reproduction: Cell Cycle, Mitosis & Meiosis
12	July 14	Mendelian Genetics Handout- In class exercise
13	July 19	Exercise 14: GMO Detection with PCR
14	July 21	Crime Scene Handout- In class exercise Lab Assessment Exam