

General Biology I Laboratory

BIOL 1615

Course Description:

This lab accompanies BIOL 1610. It is designed to support the lecture course and to provide hands-on experiences that will enhance the learning process. You will observe organisms, do experiments, test ideas, collect data and make conclusions about what you've learned. Questions in the lab report will test your understanding of what you've done and can generally be completed within the time limits of your laboratory period. (1 credit) Co-requisite: BIOL 1610.

Fall 2005 Lab Times:

Sections 1,2	Tuesday	8-9:50 am	SC 104, 106
Sections 3,4	Tuesday	12:30-2:20 pm	SC 104, 106

Contact Hours:

Instructor: Debra Hanson
Office hours (SC-111):
MW 2:00-3:00 F 11:00-12:00
T 10:00-11:00, 4:00-5:00

Open door policy.
Phone: 865-8129 (local calls)
E-mail: Hanson@SUU.edu

Grading

11 lab reports @ 100 points each	1100
Scientific paper (Lab 8)	100
Lab final	<u>300</u>
Total points	1500

Tentative lab schedule:

Lab #	Date	Topic
1	9/6	Metric system
2	9/13	Acid, Bases and Buffers
3	9/20	Macromolecules
4	9/27	Diffusion
5	10/4	Microscope
6	10/11	Enzymes
7	10/18	Photosynthesis
8	10/25	Fermentation
9	11/1	Cellular respiration
10	11/8	Molecular Genetics
11	11/15	Cell Division
12	11/22	Inheritance
13	11/29	Microevolution
--	12/6	Lab final

Note: Information in this syllabus is subject to change as deemed appropriate by the instructor.

Laboratory Reports

Attendance is critical to the learning experience of the lab so you must **participate** in the labs to get credit. Your lab report will not be accepted if you are absent on lab day so make sure your lab report is stamped as proof of attendance. There is no provision for make-up labs. Lab reports are available in the bookstore. Read through the lab prior to class and complete the portions that you can at home before lab begins. Lab reports will be due at the **START** of the following lab. Late labs will be deducted 10% for each calendar day it is late (deduction period begins the same day they are due). Your lowest lab score will be dropped. Please see me if you will be missing lab. Group work is encouraged but lab reports must be done **individually** and expressed in your own words to get credit. Failure to do your own work will result in a failing grade for that lab. Always submit neat, quality work. Labs requiring a scientific paper should be typed. Make sure all drawings, tables, graphs and computations are clearly labeled.

During labs, follow the safety guidelines. Science classes are inappropriate for children and, because of safety issues, no children may be present during lab. Food and drink are not allowed. Before you leave, please check your area. Failure to properly clean and store equipment will result in a **10% reduction** for that lab. Please handle the lab equipment with care!

Laboratory Safety guidelines

1. Do not eat, drink, smoke, store food, or apply cosmetics in the laboratory. Use mechanical pipetting devices; no mouth pipetting. Do not taste any chemical.
2. Wear shoes at all times. Wear safety goggles and tie hair back if dealing with chemicals, bacterial cultures, or an open flame. Lab coat and gloves may be required.
3. Before leaving the lab, wash and put away all chemicals, glassware and equipment. Clean work surfaces at the beginning and end of every lab period and after every spill.
4. Report all accidents immediately. For spills in or near the eyes, immediately and thoroughly rinse with water.
5. Accurately label your test tubes. Do not point the open end of a test tube at yourself or another person. Do not sniff substances directly.
6. It is difficult to tell the temperature of glassware and hot plates visually. Assume they are hot. Do not pick them up with your bare hands or put them where someone else will.
7. Do not dispose of solids in the sink. When disposing of liquid solutions, flush with large quantities of water.
8. If you break a glass object, sweep up the pieces with a broom and dustpan (not your hands) and place in the broken glass container. Tell your instructor.
9. Properly clean and store the microscopes. Electricity and water don't mix. Do not allow water based solutions to be in contact with electrical cords or conductors.
10. Never work in the laboratory alone. Do not perform unauthorized experiments or use equipment without instruction. Horseplay is not allowed. Read the lab ahead of time, come prepared, and follow directions carefully.

ADA Statement:

Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 205C of the Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.