

*Biology 201A Laboratory Syllabus
Spring 2009*

Lab Teaching Assistant: _____

Office: _____

Office hours: _____

Phone #: _____

Email: _____

Laboratory Forgiveness: You must have earned an average of 70% in the lab portion of 201A and contact Dr. Truesdale by 3 PM on 28 Jan. 2009 either in person (PS230) or via email at htruesda@sunstroke.sdsu.edu (preferred) to be eligible for lab forgiveness. **No tardy requests will be considered.**

Laboratory manual: "*Principles of Cell and Molecular Biology: Laboratory Exercises Biology 201A third edition.*" Please bring it to class every period. [Note: Earlier versions of the lab manual may be significantly different and cannot be used.]

Attendance: You are expected to attend ALL lab classes, however, problems do arise. For an absence to be excused, you must have proof of the excuse (preferably before the lab), and the excuse must be for a good reason (death in the family, medical, etc.). For an excused absence, see your laboratory instructor about making up missed material (i.e. **we expect you to attend an alternate lab that week**). If the absence is unexcused, you will receive no credit for any laboratory exercises or work during that week. **Unexcused absences will result in NO credit for any laboratory exercises, writeups or quizzes done that week. Two unexcused absences will result in your receiving an F for the laboratory portion of the course.**

Preparation: A great deal of time and effort was spent to write the lab manual so that the students would have the benefit of as much background information as possible. You are **required** to read the lab manual before coming to lab. Your lab instructor will lecture briefly before each lab and will give a summary of the materials and exercises to be done in lab that day. Your lab instructor will **not** be giving you all the information that you will need to do the lab (most of the information is in your lab manual) but will give you helpful information that will assist you in successfully completing the exercise. When your lab instructor introduces the lab, you should ask questions on material in the lab manual that you found to be unclear. The lab will be much more difficult and lengthy and you will do poorly on the pre-laboratory quizzes (below) if you have not read the lab manual. **Since we encourage students to work in groups, lack of preparation on your part, may adversely impact your group.**

Grading: The laboratory part of Biology 201A is worth approximately 25% of your overall grade in the course. The laboratory grade is made up of three parts, worth as follows:

Quizzes (6 @ 10 ea) 60 pts

Writeups (5 @ 25 ea.) 125 pts

Fly Lab Paper..... 55 pts

Please understand that the final lab grades are submitted to Dr. Truesdale by your GTA and are "**advisory**" NOT absolute. Dr. Truesdale compares all grades from all labs before

submission to insure that all classes were graded on the same basis and will determine all grades submitted to insure fairness to all students.

Academic Honesty: While we do encourage students to work in groups, **each of you is responsible for generating your own lab reports** (i.e. Writeups). Should evidence of possible "**academic dishonesty**" become evident, students will be referred to **SDSU Judicial Procedures** for appropriate action. The students involved will at a minimum receive **no credit for that exercise** and adjudication by the University can possibly include expulsion.

Note: It is my humble suggestion, that each of you take the time to read and understand the implications of the Universities policy on Academic Honesty which can be found at:

www-rohan.sdsu.edu/dept/senate/policy/pfacademics.html.

If you have questions concerning the policy, see your GTA or make an appointment to see Dr. Truesdale.

Microscopes and computers: You will be using expensive equipment in your lab so be careful and don't abuse it. If you have an accident and something happens to the equipment alert your lab instructor as soon as possible so that he/she can have the equipment repaired.

Lab Schedule: Spring 09

Week of:	Laboratory & Topic
Jan. 26	Lab #1: Biological Investigation: Microscopy
Feb. 2	Lab #2: Solutions: Optical Absorbtion
Feb. 9	Lab #3: Diffusion and Osmosis (Writeup due Wk. of Feb. 16)
Feb. 16	Lab #4: Enzyme activity (Writeup due Wk. of Feb. 23)
Feb. 23	Lab #5/6: Fermentation and Photosynthesis (Writeup due Wk. of Mar. 2)
Mar. 2	Lab #7/8: Mitotic and Meiotic Cell Division/ The sexual life cycle
Mar. 9	Lab #9: Mutants of <i>Drosophila</i> : Virtual Fly Lab Introduction
Mar. 16	Lab #10: Virtual Fly Lab (Continued)
Mar. 23	Complete Virtual Fly Lab Note: Virtual Fly Lab Writeup Due as per GTA's Instructions
Mar. 30-April 3 SPRING BREAK	
April 6	Lab #11: UV Irradiation
April 13	Lab #12: Review and Score UV Irradiation (Writeup due Wk. of April 20)
April 20	Lab #13: Enzyme Induction in a Prokaryote (Writeup due Wk. of April 27)
April 27	Lab # 14: Forensic Analysis by DNA fingerprinting
May 4	Evolution (handout)
Note:	No Labs Week of May 11
**** Final Exams begin May 14	