

**GENERAL BIOLOGY I LAB
BIOLOGY 1050-004L
SPRING 2020**

Instructor: Sandra Lehmann Vierra, MPH

E-mail: slehmannvierra@csustan.edu

Office Hours: Room N252, T 1:00pm-1:50pm,, or by appt.

Preferred contact: office hours (best), email (ok), phone (bad)

About the Professor Vierra: I grew up in Southern California. I earned my Bachelor's degree in Biochemistry and Cell Biology at UC San Diego. I then worked managing a large research laboratory at UC San Diego and then at Baylor College of Medicine in Houston, TX. After five years, I attended Yale University and earned my Master's in Public Health. My particular interests include Global Health, Infectious Disease, and Maternal Child Health. I love global travel, working in my large yard (gardening, chicken keeping, and bee keeping), and doing handwork (sewing, knitting, quilting, and anything textile oriented). I am a first generation student.

Lab: 004: W 9:00-11:50

Required Material:

- *Symbiosis Lab Manual*. Available only at Bookstore. Photocopies are not allowed.
- Notebook, pencil, calculator

Assignments:

- **Pre-Lab write-ups:** Each week you will be given a worksheet for the next week's lab. You must complete that worksheet prior to coming to lab. Although the Pre-lab write-up will not be assigned any points, in doing so, you may use the worksheet for the 1-2 questions that will cover the lab that you will complete that week.
- **Quiz:** There will be a 10 point quiz every week. Each quiz will cover the previous week's lab exercises and will test your preparation for the current week.
- **Lab write-ups:** You will be assigned one lab write-up during the semester. Instructions will be given out and discussed at that time. Be sure to follow directions. These are not Chem Lab style write-ups. You will be given a due date and they will be due at the beginning of class, or they will be considered late. See the lab schedule for the due dates. Late lab reports are penalized 5 points per day. **Lab write-ups are not group activities.** Do your own work and don't copy the answers from someone else's report. Once the reports are returned to you, save them. They are valuable study guides.
- **Check outs & other assignments:** Each week you will be given an assignment on the lab that you just completed. Sometimes I will check something in your lab manual that must be completed before you leave. Sometimes I will assign a graph or some other homework that you must complete by the next lab.
- **Lab Final:** There will be a 100 point lab practicum at the end of the semester that all students will take. It is comprehensive.

Grading:

- Quizzes (10 x 10 points) — 100 points total
- Lab Write-up + other assignments — (100 points) — 100 points total
- Lab Final Practical Exam — 50 points total

TOTAL POINTS 250

Make-up: If you know you have a conflict on the day of the lab final exam, please see me beforehand so we can discuss the situation. If something comes up unexpectedly on the day of the exam, please e-mail me. Don't 'let it ride' and plan on discussing it with me later. If I don't hear from you promptly, you get a zero.

Student Conduct:

Plan on working with a partner. Most labs will run the full three hours. Attendance is required. Do not enroll in this class if you have conflicts or other commitments during your lab period. Be on time for class. During the first few minutes of each class period we will discuss the day's activities and take the quiz. You do not get extra time if you are late. Attendance will be considered when rounding your grades up or down. Do not leave the classroom in the middle of a discussion. Please do not use cell phones or other electronic devices during class. Computers are only allowed in class as a tool for note taking or class exercises.

If you are repeating the class- Don't repeat your mistakes! Don't assume you can skip or leave early. You are actually at more risk of failing than a new student.

STUDENTS WITH DISABILITIES – If you are a student with a documented disability, please meet with me privately as soon as possible so we can arrange the accommodations that will foster your success in this course.

TUTORING ON CAMPUS – Free tutoring services are available to assist you in most disciplines, including in biology! Library 112; Phone (209) 667-3642; Web <http://www.csustan.edu/Tutoring>

CAMPUS COUNSELING SERVICES – Overwhelmed by the stress of juggling classes and your home life? Our campus offers excellent counseling services to help support you, and you've already paid for it! MSR 210; Phone (209) 667-3381; Web <http://www.csustan.edu/Counseling/>

Student athletes: please notify me at the first lab meeting, or during my office hour.

Recording Lectures and Special Accommodations: Students with documented disabilities should seek special accommodations for all classes through the DRS office on campus. If DRS sends me a file on you that lists recording lectures as an acceptable accommodation, then you may record lectures. Otherwise, you have to do it the old-fashioned way with pen and paper. If you record lectures in any form (video, audio, still pictures, etc.) without accommodation from DRS, that constitutes intellectual property theft, will result in a zero in participation points, and preclude you from turning in any assignments related to the lab session.

Important Dates: Census Date is the last day to change your grading option through Enrollment Services in MSR. Once you change your grading option, it cannot be changed back.

BIOL1050L Spring 2020 Revised Schedule

Date	Lab	Quiz #	Grade
01/29	Attendance this week is mandatory for a place in the class. Lab safety, neurophysiology of learning, study skills, time management		
02/05	Lab 1: Microscopes and Cells, (p.33 in lab manual)		
02/12	Lab 2: Scientific Investigation, (p.5 in lab manual)	Quiz 1	
02/19	Lab 3-1: Practice Pipetting, DNA extraction, PCR	Quiz 2	
02/26	Lab 3-2: Restriction Digest, Running gels, Bioinformatics BRING LAPTOP OR TABLET FOR IN-CLASS EXERCISE	Quiz 3	
03/04	Lab 4: Enzymatic Activity, (p.85 in lab manual) (Set up seed germination lab)	Quiz 4	
03/11	Lab 5: Diffusion and Osmosis, (p.57 in lab manual)	Quiz 5	
03/18	Lab 8: Respiration/ Fermentation, (p.113 in lab manual)	Quiz 6	
03/25	Spring Break — No Lab		
04/01	Cesar Chavez — No Lab		
04/08	Lab 9: Photosynthesis (p.109 in lab manual)	Quiz 7	
04/15	Lab 6: Mitosis and Meiosis, (p.119 and 125 in lab manual)	Quiz 8	
04/22	Lab 7: Solving Genetics Problems, (p.131, 137, 139, 157 in lab manual)	Quiz 9	
04/29	Lab 10: Population Genetics and Evolution, (p.59 in lab manual)	Quiz 10	
05/06	Review Session	Quiz 11	
5/13	Lab Practical		