

**BIOL 1050-009 - GENERAL BIOLOGY I Lab - Spring 2019****Instructor: Dr. Marina M. Gerson****Office:** N-272**Office Hours:** Mon 12:30-1, Tue & Thu 10:45-12, and by appointment**Contact Information:** my office (*best*) or mgerson@csustan.edu (*good*) or (209) 664-6547 (*worst*)

**About Dr. Gerson:** I grew up in Southern California, and I have had a passion for learning about little critters since I was little, myself. I was really lucky to be able to attend UC Santa Cruz for a degree in Environmental Studies and Biology. After college, I worked in S.F. Zoo's Insect Zoo and in a cardiovascular development lab at UC San Francisco; the lab used zebrafish as a model organism. Two years later, I moved on to University of Texas at Arlington to earn a Ph.D. in Quantitative Biology. My research centers on the behavior and ecology of lizards, with a focus on desert lizards of the American west.

**Texts & Materials:** All required and recommended materials are available in the campus bookstore.

**"Symbiosis" - Biology 1050 Lab Manual** available only in the campus bookstore (ISBN 9781269663267)

**Blackboard course site** for this class.

- Go to <http://my.csustan.edu> and click on the "Blackboard" link at the bottom of the page.
- Login and enter the Biology 1050-009 course site to find course content for our lab.
- There are many student computer labs available on campus; *you do not need to own a computer.*

Week	Lab	Quiz #	Write your Quiz Grade
1/29	<b>Attendance this week is mandatory for a place in the class.</b> Lab safety, biology of learning, study skills, time management	--	--
2/5	Lab 1 Scientific Investigation (pg 5 in lab manual)	--	--
2/12	Lab 2 Microscopes and Cells (pg 33 in lab manual)	Quiz 1	
2/19	Lab 3-1 Practice Pipetting, DNA extraction, PCR	Quiz 2	
2/26	Lab 3-2 Restriction Digest, Running gels, Bioinformatics <b>BRING YOUR LAPTOP OR TABLET FOR AN IN-CLASS EXERCISE</b>	Quiz 3	
3/5	Lab 4 Enzymatic Activity (pg 85 in lab manual)	Quiz 4	
3/12	Lab 5 Mitosis and Meiosis (pg 119 and 125 in lab manual)	Quiz 5	
3/19	<b>SPRING BREAK – NO CLASSES</b>		
3/26	Lab 6 Solving Genetics Problems (pg 131, 137, 139, 157 in lab manual)	Quiz 6	
4/2	Lab 7 Photosynthesis (pg 109 in lab manual)	Quiz 7	
4/9	Lab 8 Respiration/ Fermentation (pg 113 in lab manual)	Quiz 8	
4/16	Lab 9: Population Genetics and Evolution (pg 159 in lab manual)	Quiz 9	
4/23	Lab 10: Diffusion and Osmosis (pg 57 in lab manual)	Quiz 10	
4/30	Lab 11: Practical Exam Review	Quiz 11	
5/7	Lab Practical	Final	

**Conduct:**

- Be focused and be safe. **Closed-toed shoes are required. No food or drink in lab.**
- Plan on working with a partner or group each week.
- 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. Attendance will be considered when rounding your grades up or down. Do not leave the classroom in the middle of a discussion.

**How you Earn your Grade in Lab**

- There will be a *10 point quiz every week*, starting week of February 12. Each quiz will cover the previous week's lab exercises and will test your preparation for the current week.
- Your lowest quiz score will be dropped.
- Lab assignments are usually due the following week. Be sure to follow your instructor's directions when doing the Assignments. **Assignments are due online before the beginning of class, or they will be considered late.** (Format to be discussed in class.)
- There will be a comprehensive lab final in a practical exam format. You will see examples of materials and answer questions about each of the labs you have performed.
- You have 7 days after the return of graded work to contest any inaccuracies in grading.

<u>Activity</u>	<u>Points</u>
Quizzes (11 Quizzes x 10 points, drop one)	100
Assignments	100
Practical Exam Lab Final	50
<b>Total</b>	<b>250</b>

**Missed Lab and Late Work:**

- In general, it is important for you to be in your lab class every week.
- If you have an excused absence (e.g., illness with doctor's note), contact your instructor as soon as you can. Even if your absence is not "excused," please get in touch!
- Lab Assignments should be submitted through Blackboard *before* the beginning of the lab. Any work submitted after lab begins will be considered late. Late work will lose 10% per day.
- **Lab Homework Assignments are not group activities.** It is okay to discuss with your peers, but when you sit down to write, do your own work. Save your lab assignments. They are valuable study aids.

**TUTORING ON CAMPUS** – Free tutoring and writing help 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! Library 185; Phone (209) 667-3381; Web <http://www.csustan.edu/Counseling/>

**STUDENT HEALTH CENTER** – You have already paid for access to health care on campus. Services include: birth control, flu shots, immunizations, pharmacy, check-ups, HIV testing, TB tests, and *doctor's notes for when you are sick!* Phone (209) 667-3396; Web <http://healthcenter.csustan.edu>

**LIBRARY** – Our reference librarians enjoy helping you to find out all kinds of things! You can get help in person at the Reference Desk, or by phone or chat (scan left side of library main webpage). Phone (209) 667-3233; Web <http://library.csustan.edu>