



0283 Lab

Bio 10-General biology

Fall 12

S. Wellbrook  
Office SC120

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**Office Hours:** *M:* 11-12 *T:* 1:30-2:30 *W:* 11-12 *Th:* 1:30-2:30 *F:* 11-12

**BLC Hours:** *M:* 9-10 *T:* 10-11; 12:30-1:30 *W:* 9-10 *Th:* 12:30-1:30

### Course Description

Bio 10 is designed & taught as a non-majors biology course. It is intended to provide a survey of fundamental biological concepts applicable to daily life. For some students, this will be their only exposure to the science of biology; while other students will use Bio 10 as a foundation for further study in biology and its related fields. This course transfers to UC & CSU Gen. Ed area B2, B3.

### Course Repeatability

You are only allowed to attempt this course a total of 3 times [State of California Rule], assuming you received a substandard grade (D, F or W) on your first and/ or second attempt. However, on the third attempt you would need to prove extenuating circumstances for permission to enroll. **This is retroactive!**

### Class Format - Lab & Lecture

**LAB**

Mon. & Wed. room SC 126  
1:00 – 2:50 pm

**Lab will immediately follow lecture on Mondays and Wednesdays.**

- Lab reinforce the concepts we learn in lecture
- Lab is the fun part of this class ☺ → labs and lab quizzes that are missed cannot be made up
- You must have the Laboratory Manual to do the labs
- Labs with page numbers are listed weekly in our schedule, as you will note I am including supplemental lab that will not be in your lab book, I will post these on blackboard and I will make a copy for each lab table.
- Lab groups will be set up by the tables you sit at.

**Format:**

- Lab activities must be read *before lab- come prepared*
- You will perform the experiment/activity- you will have a series of questions to answer in your lab book
- Discuss your experiment/activity and findings with your table mates
- We will discuss your findings as a class

- You will be given a quiz on the lab completed that week (Monday you do the lab, Wed. you finish the lab and discuss it, **Wed. take quiz**) You need to put the time in to learn this material and not just go through the motions
- The quizzes will assess your understanding and ownership of the concepts,
- The quizzes will result in your grade for the lab (there are 15 lab quizzes and 1 score will be dropped)

## **LECTURE**

M, W, F in room Sci 131  
12:00 – 12:50 pm

Lectures will cover a series of topics outlined in the schedule and that are reinforced in Lab. You are expected to attend lecture since I do not supply lecture notes outside of the lecture setting. As well, the lecture exams are administered during the lecture period.

### **All Required Materials for Bio 10 available in LMC Bookstore**

1. **Text** - What is Life? A Guide to Biology with Physiology, by Jay Phelan, 2<sup>nd</sup> ed. [you will need this!]
2. **Laboratory Manual for Non-majors General Biology**, 2<sup>nd</sup> ed. By Mark Lewis
3. **Scantrons 100 question** for midterm and final form # 882-E
4. **Useful website by Mark Lewis:** <http://sites.google.com/site/lmcbiology10/Home>
5. **Blackboard-** you will be using this to obtain; class handouts, study guides, etc...

### **Expectations & Accomplishments (Student Learning Outcomes)**

**In general, over the course of the semester you should learn to:**

1. Recognize key concepts & synthesize them into general principles
2. Work independently & be self-motivated
3. Maximize contact time with instructors and other students to enhance your knowledge base

**Biologically, you should be able to:**

1. Recognize the various kinds of organic compounds found in living organisms
2. Recognize & describe subcellular structures & their functions
3. Discuss the structure & function of DNA & RNA as they relate to protein synthesis
4. Understand & discuss the processes of cellular respiration, photosynthesis, protein synthesis, homeostasis, & reproduction.
5. Solve various kinds of genetic problems dealing with sex determination, sex-linked traits, & dominant / recessive genes
6. Identify & explain all of the stages in mitosis & meiosis
7. Discuss the evidence for & processes of evolution

### **Grading Policy: You earn your grade! I don't give grades!**

Grades are based on points earned on the lab quizzes taken in the BLC, 3 lecture exams and the final. A total of 570 points are earned in the following way:

- a) Three lecture exams @100 pts each = 300 pts
- b) Final (20% comprehensive) = 100 pts
- c) 15 lab quizzes [lowest score dropped] = 140 pts

d) Class/home work assignments= 30 pts

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Total points= 570 pts

**NOTE:**

- There are **NO** makeup exams!! **No exceptions! If you have a serious issue you need to contact me before an exam (NOT after it is too late). E-mail me or leave me a message on my office phone.**
- I use the standard percent (%) scale: 90 - 100 = A, 80 - 89 = B, 70 - 79 = C, 60 - 69 = D, 59 or less = F.

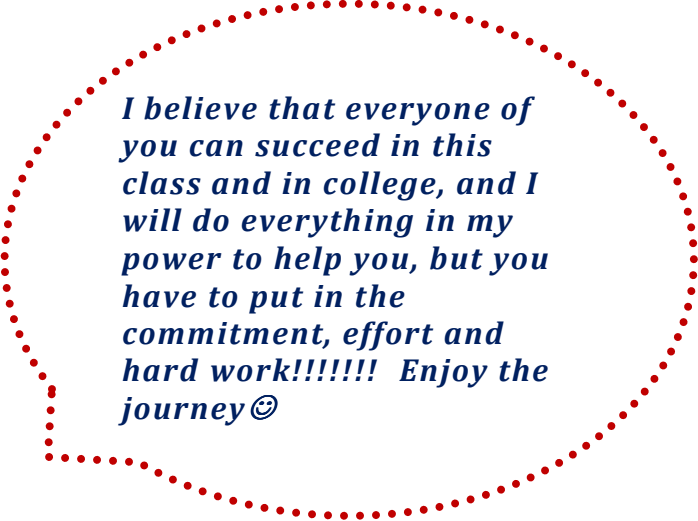
**THE BASIC DOs & DON'Ts TO GET US THROUGH BIO 10**

***DO:***

1. Do be on time for lecture. I start class on time & end on time. You need to as well.
2. Familiarize yourself with the assigned material **prior** to class. You will gain a far better understanding of both lecture & lab, as well as enjoy them more, if you are prepared.
3. Every student is entirely responsible for completing all labs. **Lab material cannot be made up**; attend lab and come prepared.
4. Clean Up!!!! It is essential that each of you take full responsibility for your "mess". At the end of your lab session, please wipe down lab tables.
5. Keep track of your quiz & exam scores so YOU always know how YOU are doing in the class.
6. If you are struggling with the class material, don't wait to let me know. Come see me early, I will do all I can to help. Tutoring/Study groups are available at no charge so sign up early!
8. If you need to drop the course, the responsibility is on you. Check college drop dates!
9. Students with documented learning & /or physical disabilities may receive reasonable classroom &/or teaching accommodations. Please make these arrangements with the instructor at the beginning of the semester or as soon as possible after documentation has been determined. Last minute requests may not be determined reasonable. For further assistance please contact DSP&S at ext. 3353.

***DON'T***

1. For lectures, **DON'T** forget to turn off your cell phones, pagers, other disturbing devices **ALONG WITH** your urge to socialize. Talking over you is impossible & not tolerated. **(All phones / electronics must be off and put in a purse or backpack not on the desk or out for any reason)**
2. During exams, absolutely **NO** electronic devices are allowed to be in your possession. Also once the exam begins no student can leave for any reason (so go to the bathroom **before** the exam)
3. Although group work is highly effective, **DON'T engage in unauthorized collaboration (no cheating)** on tests, lab quizzes or any other assignments. No credit is given for unauthorized work & your name will given to the dean! I am sure this will not be an issue for any of you.



*I believe that everyone of  
you can succeed in this  
class and in college, and I  
will do everything in my  
power to help you, but you  
have to put in the  
commitment, effort and  
hard work!!!!!! Enjoy the  
journey 😊*