Biology 1150 Introduction to Biology II

I. General Information

Professor:	Dr. Stuart Wooley
Office:	N274
Office Hours:	Monday 9-10, Tuesday 1-3, Friday 9-10
Phone:	664-6926
Email:	swooley@csustan.edu
Lecture:	MWF 8-8:50 AM N 101
Lab Manual:	Available in the bookstore.
Online:	Mastering Biology Homework assignments

Required Class Resources

Campbell Biology 9th ed. The book is available in the Bookstore. Having the correct edition of the book is important but not essential. If you have an earlier edition, you will just have to keep up with the differences between editions.
Bring your text to class because we will refer to figures and text during each class. The figures will be very helpful to you in understanding the content and details of this class. You will need to read the assigned chapters/sections and complete online homework assignments ***before*** class.

Mastering Biology

You will need to purchase access to Mastering Biology, the online homework site that accompanies the book. You must have this to complete homework assignments that will be due 1-2 times a week during the course.
Use the following Mastering Biology code to access the class

II. Course description

Biology 1150 lays a foundation for the study of biology and is the organismal section of the 1-year Biology series. While you have studied cell biology, biochemistry, genetics, and evolution in Biology 1050, this course focuses on organisms and their evolution, physiology and ecology. In addition, this course surveys the diversity of life and will expose you to many different types of organisms, from single-celled bacteria and Archaea to highly complex plants and animals. As in Biology 1050, the lab is an integrated component of the course.

During the semester, please check the Blackboard page for announcements and other information and assignments.

III. Learning Objectives

1. Explain relationships among living organisms.
2. You will improve your communication about concepts and issues in biology individually and in groups.
3. You will develop a framework for critical evaluation and use of information from reliable scientific sources to answer important biological questions.

4. You will understand the relationships between botany, zoology, chemistry, physics, and geology.
5. You will recognize the interdependence of life including humans.
6. You will be able to describe why plants are the foundation of life on earth.
7. You will be able to trace the evolutionary advances of life from unicellular to multicellular organisms.
8. You will become a more informed and responsible citizens with respect to issues concerning the living world.

IV. Course Requirements

You must have taken Biology 1050 and passed with a C or better to remain in Biology 1150. You may not concurrently enroll in both 1050 and 1150. Non-majors courses from other institutions do not take the place of either Biology 1050 or 1150. To receive transfer credit for Biology 1150, you must take **both** Biology 1050 and Biology 1150 at CSU-Stanislaus or transfer the **complete**, **equivalent** two-course *majors* series from another institution.

To do well in Biology 1150, like other college courses, you will be required to participate both inside and outside of class. As a foundational class, it is also content heavy. You will have to master a new vocabulary, and be able to articulate how those new words are related to each other. To be frank, a lot of memorization is required. To make our time in class more efficient, I will post several lectures online for you to watch. The content of those lectures is a re-iteration of material found in the textbook and can simply be studied independently. Then our class time can be taken up with the good stuff. Attendance in class is expected as is active participation. Class will include several graded in-class activities, in particular group activities. These activities are designed to increase your learning.

During lecture, take careful notes and review them frequently. The textbook is an important resource and I will refer to the figures often.

Assignments

Lecture During the lecture, you should take notes and be prepared to answer questions. Since you will have already answered all of the Mastering Biology questions before class, in class, we will focus on material that seems difficult, based on the Mastering Biology content.

Regular assignments are due at the beginning of class on their due date. Assignments need to be turned in on time. Later assignments will receive 10% late penalty for each day they are late, beginning after the class period they are due. This means that you can miss only 4 class dates, before you receive an F on the assignment. Please turn assignments in on time.

Online content Lectures (Powerpoint slides) for different topics will be posted online and you can watch them and listen to them (mp3 files) as much as you want. Because this is an introductory course, you must memorize a lot of material. A subset of the course will be posted online so you can memorize that material and we'll cover other things in class. Those online sections will are very content heavy. You will be tested over that information just like any other section in class. I will not post all the lectures, but only selected lectures.

In-class Assignments Various in-class, group activities will be assigned during the course. Each assignment will be worth 5-20 points. No makeup assignments will be given. These assignments are designed to provide opportunities for cooperative learning. In addition to helping you learn the material and do better on tests, the in-class assignments represent a (small) portion of your final grade. Therefore, wisdom suggests you attend class. Students present generally do very well on in-class assignments and it does help their grades.

Lab Like Biology 1050, your grade for Biology 1150 integrates your lab grade.

Mastering Biology Pre- and post-lecture assignments are due before and after each class period. Homework will be available to you from the beginning of the semester which allows you to do the work whenever you have time, though each homework assignment does have a deadline. Make sure to not try to finish it right up at the deadline, in case you have some problem. I will not extend the homework deadline because the computer lab was down or your computer crashed or you had a family situation. This is a firm policy. If you are concerned about getting the homework completed on time, do the homework early.

Make up work: Make-up work for class is possible, with an excuse note from some reliable person (hospital, police, etc). You must make arrangements with the instructor to take care of any work needed to be made up. You will have **1 week** to make up any assignment/exam/etc. I don't give exams early and I don't give final exams early. If you have a serious extenuating circumstance, we can talk about it, but don't plan on taking an exam early or late. Take it at the appropriate time.

Exams

Exams are an opportunity for you to convince me you know the material. In an exam, you need to articulate a correct answer. If you haven't articulated an answer previously (practicing in a study group, writing it, etc.,) you will have a more difficult time doing it during exam time. Each lecture will begin with questions that will guide the development of exams. Be sure you can articulate the answers to those questions posed in each lecture **before** the exam (*get in a study group!).*

Three to four exams will cover the lecture and reading material. "Lecture material" includes **all** information we discussed in class and in online material, while "reading material" includes the text and additional assigned reading.

Exam questions come directly from the lectures and text. Each day at lecture, I will post questions I want you to answer during the lecture. If you can comprehensively answer the questions, you will do well on the exams. I will make my exams from the questions I give you in each lecture. Exams will mostly be multiple choice with a few matching, short answer and/or diagram questions. For exams, bring a #2 pencil and a Scantron form **882-E** to class on exam day.

Textbook reading is **required**. You are responsible for all chapters covered by each exam, even if it is not covered in lecture. Topics that are on exams will come from homework questions,

lecture questions and textbook reading. Difficult concepts will be emphasized in class, but all exam topics will not be covered in class.

Exam rules You may not leave the room during an exam without the instructor's permission. You must turn off cell phones and remove your hats during exams. If your cell phone rings during an exam two (5) points will be deducted from your score. Cell phones must be put away during exams and accessing your cell phone during an exam is considered cheating and your exam will be treated as such. **If you arrive after someone has finished the exam and left the room, you will not be able to take the exam**.

Missing Exams You are responsible to notify the instructor **prior** to missing any exam. A valid excuse must be provided. A makeup exams will not necessarily be given. If an emergency suddenly arises causing you to miss an exam, it is your responsibility to notify your instructor via phone or email as soon as practical. Hospitalization, death of a family member, or other serious event would be the only valid reason for missing an exam without prior notification. Documentation for why you missed the exam is **required** if you want to take a make-up exam. Make-up exams are different than the regular exam given to the rest of class.

Erasing answers on a Scantron If you have not completely erased an answer, the Scantron may code the answer to that question as incorrect, even if you have changed that answer to the correct choice. If you want to challenge the machine's accuracy, you have until the next class period to do so. You must circle the correct answer on the question sheet (i.e. the choice you already made) and turn in that sheet to the instructor. Challenges to the machine's accuracy will not be accepted if you did not do so.

V. Grading

Calculations Grades are based on the percentage of points earned.

A	93-100%	A-	90-93%		
B+	87-90%	B	83-87%	B-	80-83%
C+	77-80%	C	73-77%	C-	70-73%
D+	67-70%	D	63-67%	D-	60-63%
F	0-60%				

If you take the credit/no credit option: CR 70-100% NC 0-70%

Grades

Lecture activities	
3 exams @ ~100 each	60%
Mastering Biology	7%
Lab	33%
Total Grade	100%

Options: **February 21** is the census date, which is the last day to drop or add a class. University policy states that February 21 is the last day to choose CR/NC. Instructors can extend the time for CR/NC. Therefore, **March 19** is the **last day** you may change your grading option (CR/NC) with me. This date is after the second exam. I will strictly follow the grading option indicated on the final grade sheet supplied by Admissions and Records. Consult with your advisor before making your decision. Grades will **not** be changed once they have been submitted. **In short, choose wisely because I won't change to a CR/NC later so your GPA will be better for graduate school or some other reason.**

Extra Credit
I do not plan to offer extra credit.

NOTE: Changing your grade in the last 4 weeks of the term is very difficult, especially if you have already earned nearly 80% of your grade. Please keep up on your grades so you can make adjustments as needed. I will return material to you in a timely manner so *you can calculate your own grade*. Your grade is a combination of both lecture, lab, and online homework, so you need to keep track, yourself, of how well you are doing in each part of the class.

VI. Learning Environment and Citizenship
Teaching philosophy
Professor
I will come to class prepared to teach an informative lecture containing important information that you will be tested on later.
I will also strive to make lecture as interesting as possible, maybe even fun or humorous.
I will strive to help you prepare for your exams by giving you 'signposts' along the way to focus your study.
I will not purposely be sneaky on exams.
I will answer questions respectfully and will begin and end class on time.
I will set policy and strive to be fair to all students.

Students
I expect students to actively participate in class discussion, group activities, and peer-peer teaching.
I expect students to be prepared for class each day.
I expect that students respect the rights of others.
I expect students will not cheat, but if students do so, they will no be surprised by an automatic F for the assignment or a referral to the appropriate disciplinary committee. Cheating is "submitting an in-class assignment for a student who is not present or submitting work that is not your own, but claiming that it is your own original work." Lying is "communication with intent to deceive" and cheating falls into that category.
Turn off your phones and please don't text in class.

Do not use laptops during class. They distract you and other students. In fact, studies have shown that your grade can suffer as much as 17 points (90% to a 72%) if you are distracted in addition to distracting other students which in turn, reduces their grades.
You may eat in class, but don't disturb others with your eating.

Study skills
Lecture will focus on those areas that seem hard to understand, based on the homework. Each lecture will begin with a number of questions to answer during the lecture—look for the answers as the lecture progresses. Test questions will be based on these questions at the beginning of lecture. If you don't see the answer to the question, then, review your notes and find the answers to the questions.

The following suggestions will help you succeed in this and other classes. 1. Read the chapter and do the homework before class. Bring questions you have from the chapter to class. (2. Attend class. (3. Complete all of the assignments on time. (4. Take notes in a way that is intuitive to you, even if you have to use a lot of paper. (5. **Join a study group** with likeminded individuals. (6. Study for the exams sooner than the night before or morning of the exam. (7. Go to bed early the night before and get up early the day of exams. (8. Learn how you learn and then stick with a style or process that is successful for you. (9. Receive from and give constructive feedback to the instructor about the class lecture, lab, and text.

Office Hours
Visit with me if you are struggling rather than suffering. Students that come and ask questions at office hours tend to do better in the course, or at least tend to make improvements. You will not be able to change your grade very much after the third exam.

Letters of Recommendation
I don't mind writing letters of recommendation. Because they are a letter of *recommendation* I do like to be able *to* recommend the candidate. As such, I can't usually recommend students unless they achieve a B or better in the class. In addition, if you only take the class, do well and never come talk to me, I cannot recommend you either. What would I say? Writing only 2-3 sentences isn't a compelling letter! If you do think you will need a letter from a professor **get to know that professor.** Otherwise your letter will not be as strong.

VII. Schedule

Date	Chapters	Date	Chapters
27-Jan	Syllabus; 25 Early Life	24-Mar	**54** Community Ecology
29-Jan	**25** Time; Fossil Record	26-Mar	**54** Community Ecology
31-Jan	**23** PopEvolution	28-Mar	**55** Ecosystems
3-Feb	**24** Species	31-Mar	**Cesar Chavez Day**
5-Feb	**24** Species	2-Apr	**56** Biodiversity
7-Feb	**26** Phylogeny	4-Apr	**56** Global Change
10-Feb	**26** Tree of Life	**7-Apr**	**Ecology Exam**
12-Feb	**27** Prokaryotes	9-Apr	**31** Fungi
14-Feb	**27** Bacteria/Archaea	11-Apr	**31** Fungal Ecology
17-Feb	**Exam 1**	14-Apr	**40** Form/Function
19-Feb	**28** Protists	16-Apr	**40** Homeostasis
21-Feb	**29** Plant Evolution	18-Apr	**32** Tissues & body Plans
24-Feb	**29** Bryophytes & life cycles		**Spring Break**
26-Feb	**30** Seed Plants	28-Apr	**33** Invertebrates
28-Feb	**30** Flowering Plants	30-Apr	**33** Arthropods-Insects
3-Mar	**30**; **35-36** online	2-May	**34** Vertebrate Evolution
5-Mar	**37** Plant nutrients	5-May	**34** Vertebrate Evolution
7-Mar	**38** Plant Biotech	7-May	**43** Immune system
10-Mar	**Exam 2**	9-May	**43** Immune system
12-Mar	**39** Plant Ecology	12-May	**50** Senses
14-Mar	**52** Climate	14-May	**46** Reproduction
17-Mar	**52** Biomes	16-May	**46** Reproduction
19-Mar	**53** Pop Ecology	**19-May**	**Final Exam 8:30-10:30**
21-Mar	**53** Human Pops; Demography		

The schedule is *subject to change* and will be updated as needs arise. I will inform you of those changes. Exam dates will (usually) remain fixed, with three exams, each worth around 100 pts. The final exam is comprehensive and will test your mastery of key information from the entire semester. I am not planning on making it optional.