



Bio 1 Hybrid – Principles of Biology (Spring 2012) (MONDAY)

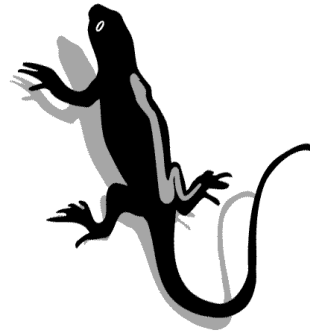
Instructor: Dr. Tim Revell

Office 60-2102, Ext# 4231 email: trevell@mtsac.edu

Office Hours: _____

PLEASE READ THIS ENTIRE SYLLABUS

WebPage: <http://instruction.mtsac.edu/trevell>



Text Book: Biology: A Guide to the Natural World, Krogh, 6th Edition

LECTURE SCHEDULE:

| <u>Week:</u> | <u>Lecture Topic</u> | <u>Chapters to Read</u> |
|--------------|---|-------------------------|
| 1 | Introduction, Chemistry | 1,2, 3 |
| 2 | Organic Chemistry | 3 (<i>Food</i>) |
| 3 | Types of cells and cell structure | 4 |
| 4 | Cell Membranes and Transport | 4,5 |
| 5 | Energy, Enzymes, Cell Respiration | 6,7 |
| 6 | Plants and Photosynthesis | 8, 24-25 |
| 7 | Microevolution, Biodiversity, Extinction | 16,17, 20-23 |
| 8 | DNA, Protein Synthesis, Mitosis & Meiosis (Lab Mid) | 10, 13-15 |
| 9 | Genetics, Biotechnology (Lec Midterm wks 1-8) FOR LEC MIDTERM BRING a Scantron 886 | 9-12 |
| 10 | Macroevolution; World History | 18-19 |
| 11 | Ecology, Populations, Communities; | 34-35 (<i>Easter</i>) |
| 12 | Biomes, Ecosystems, Human Impact | 36 |
| 13 | Circulatory, Respiratory, Immune | 26, 28-30 |
| 14 | Osmoregulation, Nervous and Endocrine systems | 27-28 |
| 15 | Digestion and Reproduction | 31-33 |
| 16 | Comprehensive Final Exam (weeks 1-16) (<i>Food</i> and <i>Easter</i> are both articles available on my website!) | |



Important Dates:

May 28th – Memorial Day

June 11th (Monday at 10:30AM)

Internet Resources:

1) Lecture Notes, Articles, Study Guides - My MtSAC Website at: instruction.mtsac.edu/trevell

2) Postings - On Blackboard: Log into the portal at myportal.mtsac.edu and then click on Blackboard link.

3) Online Office Hours - Available on the portal. Log into the portal. Then click the “student” tab. Then click “my courses” and then “my consolidated courses” and then “the semester your are in”. Then click Chat! (THIS IS NOT IN BLACKBOARD!!!).

Points Possible

Letter Grade and Percentages

| | | |
|-------------------------------------|-------------|------------|
| Lecture Assignments (14 @ 2 points) | 28 | 100-90 % A |
| Lecture Postings (15 @ 2 points) | 30 | 89-80% B |
| Lab Assignments (13 @ 5 points) | 65 | 70-79% C |
| In class Quizzes (11 @ 20) | 220 | 60-69% D |
| Final Lab Assignment | 12 | < 60% F |
| Lecture Midterm | 100 | |
| Lecture Final Exam | 150 | |
| LAB Midterm | 30 | |
| LAB Final | <u>40</u> | |
| | 675* | |

*** This total is approximate and subject to change based on holidays and other events.**



Assignments:

Lecture Assignments – Each week you will be required to turn in a lecture assignment. Lecture assignments are posted online by week. Each assignment is due the following week. For example, during the first week of school you should be learning and completing the assignment for week one **and** you will turn in this assignment at the beginning of week 2. Answers to the questions can be found in the lecture book, assigned readings, Professor Revell's lecture notes, the internet, and sometimes the grocery store. To get to the lecture assignments: Start from the home page, click *Biology 1 Hybrid Course*, click *Lecture*, Enter the password "**Lizard**" if prompted to do so. Assignments are done every week **EVEN WHEN** a holiday occurs on the normal meeting time. If class is cancelled due to a holiday, the new assignment plus the previous assignment will be due. Assignments **MUST** be turned in at the beginning of class

Lab Assignments – Each week you will complete a lab from the Biology 1 Lab Book. The lab will be turned in the following week with your lecture assignment. **IF YOU DO NOT ATTEND THE LAB YOU DO NOT RECEIVE CREDIT** for that lab! Do not turn in a lab if you have missed or this will be considered cheating/plagiarism. You must turn in your own work. Do not Xerox another student's lab and attempt to turn it in with your name on it or you may receive an "F" in the course. Lab assignments **MUST** be turned in at the beginning of class. Also, if you leave early, one point will automatically be deducted from your lab score for that week.

In Class Quizzes – Each week you will take a quiz based on the material in the book, short lectures given in lab, lecture assignments, and lab assignments. Each quiz will be worth 20 points and may consist of true/false, multiple choice, matching and short essay style questions. No make up quizzes will be given. All quizzes will be given in the first 10 minutes of class only. If you are late, you will not be allowed to take the quiz.

Postings- Every week there will be a posting that is due on the discussion board. The posting is due by the beginning of class (before the start of your lab class time). You can

gain 2 points for a post and 2 points for a reply to another persons post. You may only earn a maximum of 4 post points per week! There is also an open discussion forum where students can ask questions and post responses to each other. For general questions related to the class material, please post your questions under the open discussion forum instead of emailing me. There are no make-up postings and late postings will not count for credit. Be professional, scientific, and above all, respectful to your classmates in your discussion postings (and all other interactions for that matter!)

Midterm and Final Exam-The midterm and final exam will be in the same format as the regular class quizzes. The lecture midterm covers up to and including meiosis. The final exams (both lecture and lab) will be cumulative and will therefore cover information from the entire semester. The final exam will be worth 150 points and there will be no make up exams for the final or midterm! Do not miss the final exam or midterm! Check the current Final Exam Schedule for the day and time of your final exam.

Other information you need to know:

- 1) Attendance: Students are expected to attend all classes and are expected to stay for the entire length of the class without exceptions. If you leave early, you must inform the professor and you lose points as mentioned above.
- 2) Check your Mt. SAC email OFTEN!!!! I will often send important information out via the Mt. SAC email system. I will not send email to any other account!
- 3) Making up labs: If you cannot attend lab, you may attend another instructors lab (during that same week only), to make up the lab. Your quiz, however, will only count for 10 points as other labs only test on lab material and not lecture material. Each student can do this only one time during the semester and you must inform the instructor in advance. Also, YOU MUST ask the other instructor for permission to make up lab during their class (THEY DO NOT have to allow you into their class if they choose not!)
- 4) The attached lecture schedule is intended to assist you in planning your readings for this course. I will expect you have read the appropriate text sections prior to class. I will make every effort to maintain this schedule. Modifications, however, may be necessary. It is your responsibility to attend all classes and be aware of any changes that I may announce.
- 5) All assignments are due at the beginning of class. If you are given an assignment and do not have it ready to turn in at the beginning of class on the day it is due you must come to my office hours and hand it in to me personally AND I must grade it and return it to you while you are there. If you do this, you will receive ½ credit for the assignment. If you do not do this, it will not be accepted and you will receive a zero. You have one week to complete late assignments. After that, no credit will be given.
- 6) **Note:** It is the student's responsibility to drop a course officially if the student wishes to avoid an "F". The instructor MAY drop students for non-attendance, but this is discretionary. Students who do not drop but do not complete the work will receive an "F".

- 7) Note: All papers will be returned to the student as soon as possible. It is the student's responsibility to keep these records. No reconsideration of any grade is possible without evidence, and it is the student's responsibility to demonstrate the basis of any grade change. Students have one week after an assignment is returned to bring any grading error to the instructor's attention. After one week, no grade will be changed.
- 8) Academic Honesty: Mt San Antonio College regulations and guidelines regarding academic honesty will be followed and enforced. Cheating or plagiarism may result in an F for the entire course. I will also write a letter stating that you have cheated and it will become part of your permanent Mt. SAC record. Do not cheat or plagiarize in any form! The possession of any cheating items (ie, notecards, cell phones, ect.) during an exam will be interpreted as a cheating incident regardless of whether or not you actually "used" the item(s). All students must sign and return the Mt. SAC Biology department cheating policy. All cheating incidents will be treated the same; it does not matter whether it was a quiz, exam or assignment.
- 9) Attitude and success: This is a college level biology course and it is a difficult course. The study of biology, even at a general level, is very complex. I teach this class at a college level and I expect that you will study and prepare at a college level. I will not lower my standards just to make the class easy for you. If you have the attitude that this class (or the professor) is "not fair" or it's "too hard" then your negative attitude will probably prevent you from passing my class. I also believe, if you always work hard, show up every day, come to my office hours if you need help, etc. that you will pass my class with no problems. Remember, if nobody is passing the class, then it is probably my fault. But if YOU are not passing (but a bunch of other people are) then it is probably your fault!
- 10) The instructor reserves the right to make any necessary changes to this syllabus or to any part of the class without prior warning.
- 11) **To succeed in this course**: Your study of biology will be an exciting and rewarding experience. We will cover a variety of topics that can be both interesting and useful in improving your life. However, do not make the mistake of taking your study of this course too lightly. To succeed in this course you **MUST** attend class regularly, study often **AND** effectively, and live a life that is conducive to learning (for example, you need to sleep, eat, work, etc. within your means!). Failure to meet these basic requirements will make success difficult for most.
- 12) **Grades on Quizzes, Exams, etc.** - Students will be given all assignments and exams back in a timely manner. If there is a grading error of any sort, the student has one week to notify the instructor and solve the problem from the date in which the exam/quiz/assignment was handed back to the class. If you do not meet with the instructor within that one week period, the original grade is final. The one week period begins when I hand the exam/quiz/assignment back to the class; not necessarily when you receive it (i.e., if you are absent and do not pick up the exam for three weeks, you have missed your opportunity to negotiate your score).
- 13) I keep ALL exam and quiz questions. **YOU MAY NOT**, under any circumstances, take one of my exams or quizzes home with you. **YOU MAY NOT** xerox, copy, or photograph any of my exams or quizzes. Failure to follow these rules may result in an "F" in the course.

- 14) **Incomplete** policy: It is the students responsibility to drop the class if that is their intention. An incomplete may be given if **all three** of the following conditions are met
1) The student has completed ALL course material (other than the final exam) 2) the student is passing with at least a “C” 3) the student can demonstrate they are unable to complete the remained of the semester. The instructor reserves the right to accept or reject a students request for an incomplete.
- 15) **Again**, Biology is an exciting but challenging class. DO NOT just memorize your notes. I expect you to UNDERSTAND biology. To understand biology you need to ask questions, think, and analyze the material I give you. Forming study groups is often a beneficial method of attack, but only if your groups is serious about studying!
- 16) **No cell phones or any other devices** that create distractions are allowed in class. Special considerations may be given by the instructor on an individual basis. Any cell phone that is used, looked at, or even visible by the instructor during a quiz or exam will result in a zero on that assignment and a possible “F” in the entire course. Not texting is allowed in class (even during breaks!)
- 17) **Please notify the instructor immediately if you have a particular situation that requires special accommodations (such as a health issue or disability).**
- 18) Please visit my website (elearn.mtsac.edu/trevell/bio1) and read the section on “How to be an excellent student”
- 19) SLO’s and GEO’s related to this course can be found on the Mt. SAC website at www.mtsac.edu

Because of the design of these web pages, I HIGHLY SUGGEST you use Internet Explorer as your web browser.

Biology 1L-Principles of Biology Laboratory
Instructor: Tim Revell, Ph.D.
Office 60-2102, Ext# 4231 email: trevell@mtsac.edu
Office Hours: See Lecture Syllabus

Required Text: Life all around us. Lab Manual for Biology 1. Schmidt, Vail, Kakiba-Russel, Revell.

LABORATORY SCHEDULE:

| <u>WEEK</u> | <u>LAB #</u> | <u>LAB</u> |
|--------------------|---------------------|---|
| 1 | 1 | Mt SAC CSI – Tools of Biology |
| 2 | 2 | You Are What You Eat |
| 3 | 3 | Cells and the Metric System |
| 4 | 4 | How Things Move - Transport |
| 5 | 5 | Cellular Respiration and Metabolism |
| 6 | 6 | Photosynthesis |
| 7 | 7 | Biodiversity (wear appropriate clothes!) |
| 8 | 8 | DNA, Protein Synthesis, Biotech; lab MIDTERM |
| 9 | 9 | Genetics (Lecture Midterm) |
| 10 | 10 | Homologous Structures in Vertebrates |
| 11 | 11 | Plant & Animal Interactions |
| 12 | 12 | Population Ecology & Disease |
| 13 | 13 | Circulatory system and Respiratory System |
| 14 | 14 | Senses |
| 15 | 15 | Ecology (wear appropriate clothes!) |
| 16 | | COMPREHENSIVE FINAL |