Course Description
My name is Mark Cooper and I will be the instructor for this course. Your study of biology will be an exciting and rewarding experience. This course is designed for science majors and will be taught at that level. My teaching philosophy is to make the class entertaining and fun. However, do not make the mistake of taking your studying in this course too lightly. This is actually a sophomore level introductory course into the biological sciences and it is not easy. It has the reputation of being one of the tougher courses in our department. If you are a science major looking to transfer to a four year institution, be aware my goal is to get you ready for higher level courses. I expect you to get at the least an equivalent course to those at a four year university and in many ways I expect more from you because of our smaller class sizes. For you 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. Again, Biology 2 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. I suggest you read ahead in the textbook. I will be lecturing daily on what I feel is important, but having an awareness of the topic before lecture is extremely helpful. Also, reviewing your notes before class will also be very helpful. I am here to help you succeed. Do not hesitate to ask about topics you don’t understand.

Supplies Needed
Required Lab Manual: Printed or you can download it online from my website
Required Extras:
5 - Form # 882 Scantrons
1 - Form # 884 Scantron
5 - Form # 815 Scantrons

These scantrons are to be brought in by 9/17/15. Failure to do so will result in you not being able to take quizzes and tests until they are received.
• Pencils and pens for notes, tests and quizzes
• Time off for Two Mandatory Field Trips
Lecture Schedule

1) Aug 25th (T) - Ch. 25 (pp. 538-543) & Ch. 26 Phylogeny
2) Aug 27th (Th) - Ch. 27 Bacteria
3) Sept 1st (T) - Ch. 28 Protista
4) Sept 3rd (Th) - Ch. 31 Fungi
5) Sept 8th (T) - Ch. 19 Viruses
6) Sept 10th (Th) - Ch. 29 Plants Colonizing land
7) Sept 15th (T) - Exam 1 (Ch. 19, 26-28, 31)
8) Sept 17th (Th) - Ch. 30 & 38 Evolution of Seed Plants
9) Sept 22nd (T) - Ch. 35 Plant Structure
10) Sept 24th (Th) - Ch. 36 Plant Transport
11) Sept 29th (T) Ch. 37 Plant Nutrients
12) Oct 1st (Th) Ch. 39 Plant Response
13) Oct 6th (T) - Exam 2 (Ch. 29-30, 35-39)
14) Oct 8th (Th) - Ch. 32 & 40, Animal Diversity & Structure
15) Oct 13th (T) - Ch. 33 & pp. 892-899, 915-918, 977-978 Invertebrates I
16) Oct 15th (Th) Ch. 33 & pp. 932-934, 936, 1061-1076 Invertebrates II
17) Oct 20th (T) Ch. 33 & pp. 1079-1084, 1101-1106 Invertebrates III
18) Oct 22nd (Th) Ch. 33 & pp. 1111-1113, 1117, 1119-1127 Invertebrates IV
19) Oct 27th (T) - Exam 3 (Ch. 32-33 pp. 892-900, 915-918, 932-934, 936, 1061-1076, 1079-1084, 1101-1107, 1111-1113, 1117, 1119-1127)
20) Oct 29th (Th) Ch. 34 & pp. 918, 934-935, 973-974, 976, Intro to Chordates (Fish)
21) Nov 3rd (T) - Exam 4 & pp. 919 Tetrapods
22) Nov 5th (Th) - Ch. 34 & pp. 936, 938, 986 Amphibians & Reptiles
23) Nov 10th (T) Ch. 34 & 980-984 Birds
24) Nov 12th (Th) - Ch. 34 Birds
25) Nov 17th (T) Ch. 34 & pp. 900-911, 920-932, 939-943, Mammals
26) Nov 19th (Th) - Ch. 34 & pp. 936-938, 985-988-989 Mammals
27) Nov 24th (T) Ch. 34 & pp. 1085-1098, 1106-1110, 1113-1119, 1129-1130 Mammals
28) Nov 26th (Th) - Thanksgiving Holiday
29) Dec 1st (T) - Exam 4 (Ch. 34, 43, pp. 900-911, 918-932, 934-938, 980-986, 988-989, 1085-1098, 1106-1110, 1113-1119, 1129-1130)
30) Dec 3rd (Th) - Ch. 26 History of Life
31) Dec 8th (T) Lecture Final (1:30-4:00)

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 is “too hard” then your negative attitude will probably prevent you from passing this class. I also believe, if you always work hard, show up every day, and come to my office hours if you need help, etc., you will pass this class without much of a problem. Remember, if nobody is passing the class, then it is probably my fault. But if YOU are not passing (but a lot of other people are) then it is probably your fault!

“We all learn best in our own ways. Some people do better studying one subject at a time, while some do better studying three things at once. Some people do best studying in structured, linear way, while others do best jumping around, “surrounding” a subject rather than traversing it. Some people prefer to learn by manipulating models, and others by reading.

Bill Gates
Lab Schedule

1) Aug 27th - Bacteria, Viruses & Protista I
2) Sept 3rd - Protista II & Fungi
3) Sept 10th - Practicum I
4) Sept 17th - Plant Phylogeny/Campus Plants
5) Sept 24th - Plant Structure/Campus Plants
6) Oct 1st - Practicum II
7) Oct 8th - Sponges-Worms
8) Oct 15th - Mollusks-Echinoderm
9) Oct 22nd - Practicum III
10) Oct 29th - Chordates to Fish
11) Nov 5th - Amphibians & Reptiles
12) Nov 12th - Practicum IV
13) Nov 19th - Birds
14) Nov 26th - Thanksgiving Holiday
15) Dec 4th - Mammals
16) Dec 11th - Practical V and Final

Important Due Dates

Test Dates
- Sept 15th—Exam 1
- Oct 6th—Exam 2
- Oct 27th—Exam 3
- Dec 1st—Exam 4
- Dec 8th—Lecture Final (1:30-4:00)

Lab Practicum Dates
- Sept 10th—Practicum I
- Oct 1st—Practicum II
- Oct 22nd—Practicum III
- Nov 12th—Practicum IV
- Dec 11th—Practicum V & Lab Final

AM—(10:30—1:00)
PM—(4:30—7:00)

Field Trips

There will be two field trips included in this course. They are required. You will be college excused from attending other classes if the trips occur during a class time. Missed field trips require a special written makeup report. See me for details before the trip so arrangements can be made. Failure to go on the fieldtrip or complete the report will resort in the lowering of your grade by one full grade. The information from the field trips will be included on the exams. There will be two opportunities for each trip and you are only required to attend one of each. The Desert trip will have a $10 fee which will be collected that day. (Bring an extra $5 if you want to feed a giraffe)

Desert Trip Dates
- Oct 24th or Oct 25th (7:00 am—7:00 pm)

Beach Trip Dates
- Nov 13th or Nov 14th (1:00 am — 7:00 pm)

“Class, who can tell me what I have preserved in this jar? No, it’s not a pig or a baby cow... it’s the last student who got caught cheating on one of my tests”
Policy on Attendance

Since many of the questions on the quizzes and tests come directly from the lecture material, it is critical that you attend all class meetings. We will have quizzes or assignments due everyday and you will lose points if you are late or absent. All assignments are due at the beginning of the class and points will be taken off for late work. (See last page) If you must miss a class, it is your responsibility to get the notes from a fellow student. If your number of absences exceeds the number of hours the class meets in 3 days, you will be dropped from the class. Poor attendance in lecture or lab will lower your grade. After October 30th, you cannot officially be dropped from the course. This is the last day you can receive a “W” (Withdrawal). After this date, you must be given a grade in the course and there are enough points left in the semester, it would be impossible to get a passing grade. Walking into class late is disruptive to me and other students. I know there are times when things happen that are beyond your control. However, if you are habitually late I will ask you to drop this class and take a class at a time that works better with your schedule. Once class begins, it is also disruptive to me and other students when an individual wanders in and out of the classroom. This is a classroom not a movie theater. If you have to leave class while it is in session leave permanently for that class period. I will not allow you to reenter the room. If you know you will have to

Policy on Academic Integrity

Cheating and Plagiarism are violations of the college’s policy and are considered serious offenses. The Department of Biological Sciences takes all incidences of academic dishonesty seriously and acts accordingly. I reserve the right to give an “F” for the assignment, test and/or class and the matter will be brought up to the Director of Student Affairs as stated in the school’s current College Catalog. This policy states:

1. No dictionaries, reference materials, or notes, may be used during any exam or quiz unless authorized by the professor.
2. No electronic devices, of any type, may be used during any exam or quiz unless authorized by the professor.
3. No talking, signaling, sharing of note cards, calculators or other materials is allowed during any exam or quiz, unless authorized by the professor.
4. Only the materials required or authorized for an exam or quiz should be out. All other materials should be put away as instructed.
5. Students may not leave the classroom during an exam or quiz unless authorized by the professor. If a student leaves the room without permission, the test or quiz will be forfeited at that time.

Biology Cheating Policy

WHAT IS CHEATING?
Some examples of cheating include, but are not limited to:

a. Plagiarism, which is the use of materials authored by another person or obtained from a commercial source or the use of passages without proper acknowledgment.
b. Having or using unauthorized materials during any exam or quiz
c. Notes concealed in or written on clothing, hats, or skin (as examples).
d. Looking at another student’s work during any exam or quiz.
e. Changing answers on a returned exam in order to claim there had been a grading error.
f. Sharing any content of exams or quizzes with individuals who have not yet taken it.
g. Removing an exam or quiz from the classroom without the professor’s approval.
h. Taking photos of exams, quizzes, completed ScanTrons®, or exam keys.
i. Turning in work that was generated by other individuals or by the same individual but in a prior semester, including but not limited to: lab report data, lab report or homework questions, homework assignments, and extra credit assignments.
Policy on Cell Phone Use

Cell phones and cell phone etiquette has become a problem in the last several years. I am aware of different policies by different professors at this college, but I am informing you now that this is one policy in class I am adamant about. Ringing or vibrating cell phones in class have become a major distraction to your fellow students and to me. Texting or using apps in class is also a distraction and shows a lack of respect for me and your fellow students. I am now imposing a policy where if your cell phone goes off, you are found texting, or using apps during class, you will be asked to leave the room and will not be allowed to return until the next class break. If you must leave it on for emergency situations, you need to inform me before class. I will give you breaks during class. You may use your phone at that time. I expect your cell phones to be in your pocket, purse, or backpack at all other times. You are not allowed to have your cell phone out on the desk especially during a test. You must put in your backpack, purse, or on my front desk. If I see you with a cell phone on you during a test you will receive an F on that test.

TURN OFF YOUR PHONE!

Grading

Final Grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1058 points and above</td>
<td>(90-100%)</td>
</tr>
<tr>
<td>B</td>
<td>940 - 1057 points</td>
<td>(80-89%)</td>
</tr>
<tr>
<td>C</td>
<td>823 - 939 points</td>
<td>(70-79%)</td>
</tr>
<tr>
<td>D</td>
<td>705 - 822 points</td>
<td>(60-69%)</td>
</tr>
<tr>
<td>F</td>
<td>704 points and below</td>
<td>(0-59%)</td>
</tr>
</tbody>
</table>

Grades will be determined by a straight percentage of your final score. The point totals are a combination of both your lecture and lab scores.

GRADING: The semester grade will be determined by several factors: Midterm exams, quizzes, practicum and comprehensive final exams. There will be one grade for both lecture and laboratory.

THERE WILL BE NO MAKE-UP QUIZZES OR EXAMS! Students who miss an exam will have that exam score replaced by the score on the final. Students who fail to take two exams will be dropped from the course.

Point Values

Lecture Portion

- 4 Exams = 400 pts (100 pts each)
- 1 Final Exam = 150 pts
- 5 Lect. Quizzes = 75 pts (15 pts each)

Total Lecture Points = 625 points

Laboratory Portion

- 4 Lab Practicum = 400 pts (100 pts each)
- 1 Lab Final = 150 pts

Total Lab points = 550 pts

*Class Total = 1175 pts

*The total is approximate and can be changed if necessary.

You will be taking 4 lecture exams and 4 practicum. The lowest exam and practicum can be replaced by the final. If you miss an exam that will be the grade replaced. The final is a comprehensive final and must be taken. We will be taking more than 5 quizzes and I only will count your top 5 scores. Any missed quizzes will be among the dropped scores.

---

Education seems to be in America the only commodity of which the customer tries to get as little as he can for his money

Max Forman
IMPORTANT DROP DATES AND HOLIDAYS

- Sept 4th—Last day to drop with a refund
- Sept 6th—Last day to drop without a W
- Sept 7th—Labor Day
- Oct 30th—Last day to drop with a W
- Nov 11th—Veterans’ Day
- Nov 26th to Nov 29th—Thanksgiving Holiday

Accommodations

If you feel that you have a disability that may prevent you from succeeding in this class please contact the DSP&S office. The office is located in the Student Services Building (9B). http://www.mtsac.edu/dsps/

SLO Information

- http://www.mtsac.edu/instruction/outcomes/sloinfo.html

Late Assignments

I have been having an issue with students coming to class late and students turning in late work. I have found a need to develop a policy that is consistent and fair to all my students including those that get to class on time and those who turn in their work on time. A nonfunctioning printer is not an excuse. Work on your assignment early enough so if problems arise, you have time to deal with them. See the table to the right for my policy on assignments that are turned in after the beginning of the class the assignment is due.

On Time: Turned in at the beginning of class
100% - any missed questions

Turned in 5 minutes after class starts 80% - any missed questions

Turned in the day due but after class ends 70% - any missed questions

Turned in next class meeting 50% - any missed questions