

Syllabus: **BIOLOGY 40 EVOLUTION** Spring 2012

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Lecture: Th 1900 – 2150 SM 123
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WEEK	DATE	LECTURE TOPIC	READINGS
1	JAN12	Introduction: What is Science?	Ch. 1
2	19	Science and Creationsim	Ch. 2
3	26	The Fossil Record	Ch. 3
4	FEB 2	The History of Evolutionary Thought	Ch. 4
5	9	Systematics and Evolution	Ch. 5
6	16	Mutation and Genetic Variation	Handout
7	23	Mendellian Genetics and Natural Selection	Handout
8	MAR 1	MIDTERM EXAM	
9	8	Adaptation and Selection	Handout
	12 - 16	SPRING BREAK	
10	22	Speciation	Handout
11	29	Origins of Life	Ch. 6
12	APR 5	The Cambrian Explosion and Beyond	Ch. 7, 8
13	12	Fish to Dinosaurs	Ch. 9 - 12
14	19	Mammal and Birds	Ch. 13, 14
15	26	Human Evolution	Ch 15.
16	MAY 3	Brain, Behavior and Evolution	
	15	FINAL EXAM 1930 - 2130	

About this course: Biology 40 is an introduction to the theory of evolution. Emphasis will be placed on both the theory of evolution and the evidence for evolution. This is a non-majors course for students with little background in the sciences. A field trips may be required to fulfill the objectives of this course.

Student Learning Outcomes (SLO's)

Upon completion of this course, the student will be able to:

1. Explain the difference between a belief system and science.
2. Explain the scientific method and how it is applied in area of evolutionary biology.
3. Discuss the origin of organic matter and the evolution of early life on earth.
4. Explain the mechanisms of natural selection and the importance of their effect on gene frequencies.
5. Discuss the evolution of biochemical processes involved in heredity, growth and reproduction, and homeostasis.
6. Explain the difference between micro and macroevolution.
7. Explain organismal survival and diversification as functions of adaptation to the environment.
8. Discuss the rates and patterns of evolution and extinction on the earth.

IMPORTANT DATES

22 JAN 2012	Last Day to drop with a refund
14 FEB 2012	Last Day to drop without a "W"
4 APR 2012	Last day to drop with a "W"

Test Dates (Subject to change)

Lecture Exam	1 MAR 2012
Final Exam	15 MAY 2012 (1930 - 2130)

Required Books

Prothero, DR 2001 Evolution: What the fossils Say and Why It Matters. Columbia University Press, New York

Make-up Exams and Quizzes: If there is a problem with the exam dates, see me well **in advance** so other arrangements can be made. If you show up late, you will not be allowed to take the exam or quiz and it will be recorded as a zero. The only acceptable excuses for missing an exam are listed below. All students must take the final exam.

Acceptable Excuses: There are very few excuses that will be deemed acceptable for unscheduled late work submission or missed exams. These include:

1. Death

- Your own early demise is, of course, a valid excuse for not turning in your work on time. In this case I will not require any further documentation.
- Death of a very close personal friend or relative. Owing to the incredible “revivication” experienced by grandparents of students at Saddleback College, I will require a certified copy of a death certificate for the deceased. In addition, if it is not obvious that this person is a relative (i.e. same surname and address), I will require a notarized statement of the relationship between yourself and the deceased.

1. True Personal Emergency

- We all have true personal emergencies. For instance, a ruptured appendix may prevent you from being present for a test. If such a situation should arise, please document it fully; examples of appropriate documentation include signed doctors’ notes, hospital records showing your admission, police reports, etc... Notes from your parents are **not** acceptable.

2. Other Excuses

- None

Attendance: Attendance is mandatory. Since many of the questions on the tests will come from the lecture material, it is critical that students attend all class meetings. 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 two weeks (six hours), the instructor may drop you from the course. **However, it is ultimately the student’s responsibility to drop themselves from the course.** Poor attendance may result in the loss of one grade level (i.e. a student will fall from an “A” to a “B”).

Grading: Your course grade will be based upon the following:

Lecture Exam	100 pts
Final Exam	100 pts
Paper/Project.....	<u>100 pts</u>
	300 pts

Tentative Grading Scale:

A	270 points and above
B	240 to 269 points
C	210 to 239 points
D	180 to 209points
F	179 points and below

NOTE: *In order to facilitate a more productive learning environment, points, assignments and due dates are subject to change at the instructor's discretion.*

Field Trips:

There may be a field trip to visit a museum or fossil site. It may be scheduled on a Saturday.

Reasonable Accommodation:

All reasonable efforts will be made to accommodate students with disabilities. It is your responsibility to provide documentation of your disability and resolve the appropriate accommodation(s) within the first of the semester. **NO students** may use dictionaries or electronic translation devices during lecture exams or quizzes, without prior permission of the instructor.

Cellular Phones must be set on vibrate or another silent alert mode during class. Students that disrupt the class with these devices will be asked to leave for that day and **lose 10 points** for each offense.

Math, Science, and Engineering Division Policy on Academic Integrity
Statement of Purpose

Academic integrity is not just a matter of "following the rules." It is a matter of participating in an intellectual community in a way that fosters the values of that community. These values include the promotion of learning, the sharing of knowledge, and the honest acknowledgment of the various sources of information. This document is designed with the purpose of clarifying some specific student actions that promote or violate these values. It should be read as a reinforcement, clarification, and extension of the "Academic Honor Code" as stated in the Saddleback College Catalog (under the section of "Student Rights and Responsibilities") and in the Student Handbook as the "Code of Conduct". This document is not designed to be an exhaustive list of academic "dos and don'ts." Rather, students are expected to understand that all participants in an academic environment have an active and on-going responsibility to be self-critical and to assess whether their actions are in compliance with a true spirit of learning. Students are accountable for academic dishonesty in any form, whether their actions are explicitly listed below or not. Further, ignorance or confusion about this policy or its interpretation is not a valid excuse for violating it. It is each student's responsibility to recognize when an action is questionable and to question it. When in doubt, a student should always ask his or her instructor.

Academic honesty

When you submit work for credit you must do so honestly. At a minimum, this means:

1. Any and all work you submit must be your own work. For lab work, this includes gathering, analyzing, and presenting data. Group projects, if assigned,

should be submitted using only the names of group members who contributed to the completion of the project.

2. You may use only those resources explicitly allowed by the instructor in completing an assignment. Allowed resources will vary with classes, instructors, and assignments. It is your responsibility to know which resources are allowed on any given assignment.

3. You must acknowledge use of allowed resources in completing an assignment, unless the instructor does not require such acknowledgment. Many instructors allow, and even encourage, students to receive help from each other, other instructors, tutors, and/or printed or online materials. At the top of any assignment on which you have received outside help, you should list the sources of that help. For example, you might write: "I worked with [names of classmates worked with]" or "I got help in the LAP from [names of tutors]."

4. Unless given explicit permission, you may not submit work for credit if that work was completed for a different class. This includes work completed for the same course in a different semester. Learning is not just about the final product, but the process, and instructors give assignments with the expectation that completing the assignment will be a learning experience.

Academic dishonesty

The following actions are considered to be cheating. Again, this is not an exhaustive list, and students are expected to take an active role in assessing their own actions to ensure that they are honest.

1. Submitting a test or any other work (including homework, lab report, research or literature report, etc.) that is copied wholly or in part from another person's test or work, or knowingly allowing another student to copy from your work.

2. Having another person complete an assignment, take a test, or otherwise meet a requirement for you or you doing so for another student.

3. Using written or electronically retrievable notes or other unauthorized sources of information during a test.

4. Receiving specific information about a test from anyone but the instructor during the test, or giving to or allowing another student to get from you such information during the test.

5. Receiving specific information about the contents of a test before taking it, or providing specific information about a test after taking it in such a way that another student receives the information before s/he takes the same or a similar test.

6. Plagiarizing assignments from any source including Internet sources.

7. Falsifying or altering laboratory data, or copying results or answers from another student. Even if you were directed to work in a pair or other grouping, and although you may be allowed to share "primary data", it will be considered as evidence of cheating if you and another student report identical results that should naturally differ from one student to another, or identical wording in conclusions, answers to questions, etc. "Primary data" means numerical values or observations obtained directly by the experimenter or read directly from a measuring instrument.

8. Submitting a lab report using data you did not help to collect or sharing data with a student who did not help collect it. This does not include data provided by the instructor. While lab work is often done in groups, each group member is expected to participate in performing the experiment and analyzing and presenting the data collected.

9. Getting allowed help in preparing, writing, reviewing, editing, or proofreading an assignment for submission without acknowledging that help, if required by the instructor. This includes help from any source including other students, teachers, lab technicians, family members, friends, acquaintances, and even from anonymous sources (especially Internet sources). It may not be considered cheating to get the help, but it is definitely considered cheating not to note the source and extent of the help in a prominent way in the submitted work, if required by the instructor.

10. Using the whole of or substantial part(s) of any written assignment submitted for credit in another (concurrent or previously taken) course, without the explicit permission of the current instructor.

The penalties for any act of academic dishonesty are left to the discretion of the instructor. Possible penalties are listed in College Catalog and the Student Handbook.

It is the policy of this division that all acts of dishonesty are reported to the Division Dean and the Vice President for Student Services. The Vice President keeps records of all reported incidents, and repeated offenses are handled with increasing severity.

Policy on Cheating:

Violation of the honor code stated above or the Code of Conduct stated in the Student Handbook will result in harsh consequences. At minimum all students involved in a cheating incident (as defined above) will lose all points associated with the assignment or test. At the discretion of the instructor, the incident will be reported to the vice-president of student affairs.

Class Agreement Form

I understand that I am enrolling in **Biology 40, Evolution, Ticket Number 21185**. I have read and agree to the policies put forth in the class syllabus and especially those listed below:

1. I understand that a field trip for this class may conflict with other classes and that it is my responsibility to deal with these conflicts.
2. I have read and will abide by the Saddleback College Math, Science, and Engineering Division Policy on Academic Integrity and the Code of Conduct as stated in the Saddleback College Student Handbook.
3. I agree that any breach of the policies set forth in the syllabus will result in harsh consequences. Such consequences are indicated in the syllabus and may include expulsion from this class. I agree to accept these consequences if it is determined that I was cheating (as defined in the MSE Honor Code).

Name (printed)

Student Number

Signature

Date