

Biology 3020 - 001**Syllabus****Fall 1013****Instructor:** Dr. Steven J. Wolf**Office:** Naraghi Hall of Science 269**Office Hours:** Monday and Friday 9:00 - 10:00 a.m. and Thursday 8:00 - 9:00 a.m.; and by appointment.**Phone:** 667-3489. If you leave a message speak slowly and clearly or your call will not be returned.

Email: swolf@csustan.edu Email is for emergencies, setting up an appointment, or for questions with very short answers. Put Biol 3020 in the subject line or it will not be acknowledged by your instructor. Please ask complex questions during the lecture or office hours. Questions regarding grades and/or those answered on the syllabus will not be acknowledged.

Lectures: Mon., Weds., Fri. 1:00 - 1:50 a.m. in N-101.

Text: Evolution 101, by Moore and Moore. I also highly recommend [Denying Evolution: Creationism, Scientism, and the Nature of Science](#), by Massimo Pigliucci and [The Greatest Show on Earth: The Evidence for Evolution](#) by Richard Dawkins.

Biology Majors: Note this class does not fulfill your U.D. G.E. requirement, and if your catalog year is 2009 or more recent, it will not count as a Biology elective. Consult with your advisor to make sure you should be in this course.

iClickers: You are required to purchase an iClicker remote for in-class participation. iClicker is a response system that allows you to respond to questions posed during class, and you will be graded on those questions. In order to receive this credit, you need to register your iClicker remote online at: <http://www.iclicker.com/registration>. Complete the fields with your first name, last name, student ID, and remote ID. Be sure to include the preceding zeros, E.g., 000456123 of your ID number. The remote ID is the series of numbers and letters found on the bottom of the back of your iClicker remote. The iClickers will be used every day in class, and you are responsible for bringing your remote daily.

Numerous studies have demonstrated that iClickers improve student learning. iClickers have been adopted by many other departments on campus. So you will use it again for several classes. There will be 2- 3 graded iClicker questions per class. So regular attendance is essential. The iClicker may also be used for anonymous polling, provoking discussions, and to gauge student comprehension of difficult topics. Information from these types of questions is not recorded, so your anonymity is guaranteed.

Homework Due 1:00 p.m., December 2: Watch [Intelligent Design trial video](#) and hand in [question worksheet](#) worth 10 pts. Pages must be stapled or they will receive a grade of 0. Questions on this material will appear on the third exam.

Computers: If you use a computer in class it must be used only for purposes relevant to the course and you must sit in the first row. A first time violation will result in a 20 point deduction from your grade. A second violation will result in 50 points deducted from your grade and you will no longer be allowed to use a computer in the class.

Audio\Video Recording: Recording of lectures and taking photos in class are not permitted. Violators will receive an F in the course.

Announcements: Consult the [announcements page](#) often for important, up to the minute information.

No classes on the following days:

September 2 - Labor Day
November 11 - Veteran's Day
November 29 - Thanksgiving

Student learning goals:

1. The student will be introduced to the intellectual significance of the scientific theory of evolution.
2. The student will be presented with an historical timeline of people, places and events that shaped our understanding and development of the modern theory of evolution and its court challenges.
3. The student will learn how evolution works through its different processes (i.e., natural selection, mutation, recombination, gene flow, genetic drift, migration, sexual selection).
4. The student will be presented with the evidence for evolution from several scientific disciplines, for example, biochemistry, paleontology, genetics, biogeography, comparative anatomy, and molecular biology.
5. Through scientific understanding of evolutionary relationships of fossils and living organisms, the student will gain further appreciation of natural history and biological diversity.

Teaching philosophy: "Give a man a fish and he will eat for a day. Teach a man to fish and he will eat for a lifetime" - Confucius. Your instructor is here to teach you to fish, i.e. think. You are expected to read your text prior to each lecture, study regularly, and to consult your text and notes when you have a question. Your instructor will be happy to answer questions once you have made an honest effort to do so on your own. A question may sometimes be answered with a question, or your fellow classmates may be called upon to help answer it. This is to lead you to the answer, not embarrass you. You are only asked to make an honest effort to answer the question. However, if you are not keeping up with the material then you may indeed be embarrassed.

Note: you will take your own notes, prepare your own study guides, and keep track of your grades. Do not ask your instructor to do so for you.

Exams: There will be four exams, each worth 80 points. Note that **all** exams are comprehensive. If you are late then you will have less time to complete the exam. Traffic and/or car problems are not acceptable excuses for being late. Leave early on exam days to ensure you will be on time. Always bring a #2 pencil and Scantron form 883-E (or ES) to the exams. Purchase the proper Scantron form well in advance of exams. No excuses, including the bookstore runs out of them, will be accepted for not having the proper form. **There are several important terms, on the [definitions page](#), that you must know the exact definition.**

Note: Exam date/time changes will be made only in case of an emergency or if they conflict with official university activities. **Do not** schedule any appointments, nor make any travel plans that conflict with a scheduled exam. You must not leave the room during an exam without the instructors permission. You must turn off cell phones and remove baseball caps during exams. If your cell phone rings during an exam five (5) points will be deducted from your score. Failing to follow instructions written on your exam will result in two (2) points being deducted for **each** violation. No food or drinks are permitted during exams. Cell phones must be put away during exams. Taking out a cell phone during an exam is considered cheating, your exam will be confiscated, and you will receive a grade of F in the course.

Note: the Scantron machine sometime makes mistakes, particularly when you change an answer and do not completely erase the other choice. Challenges to the machine's accuracy must be made by the next class period, after the exam is returned. Changing a Scantron answer after the exam is handed back is cheating and you will receive an F in the course.

It is **your** responsibility to notify the instructor **prior** to missing an exam and to supply him with a valid, **written** excuse. There will be no extra credit nor makeup exams. If you miss an exam for a legitimate emergency it is still your responsibility to notify the instructor as soon as practical. Under no circumstances will you be allowed to take an exam once it has been handed back.

Activity	Date	Value
Exam 1	Sept. 18	80 pts.
Exam 2	Oct. 14	80 pts.
Exam 3	Nov. 8	80 pts.
Exam 4	Dec 9	80 pts.
iClicker	Every class	20 pts.
ID Trial	Dec. 2	10 pts.

Total		350 pts.
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Grades: A = 100-90%, B = 89.9-80%, C = 79.9-70%, D = 69.9-60%, F <60%, CR > 69.9%, NC < 70%. Keep track of your grades, including the iClicker questions. Do not ask your instructor to calculate your grades for you.

Grading Option: November 15, 1:50 p.m., is the last opportunity to change your grading option. **No exceptions.** To do so you must have your instructor sign an add/drop form. It is your responsibility to turn this form in to Enrollment Services by 5 pm that day. Your instructor will strictly follow the grading option indicated on the final grade sheet supplied by Enrollment Services. Consult with your advisor before making your decision. Grades will not be changed once they have been submitted.

Important Date: September 19 is the last day to drop the course.

Student Conduct: In such a large class it is essential that students respect the rights of others. Any disruptive behavior will result in 20 pts. being deducted from your total grade. Turn off your cell phones.

Class Participation/Behavior: This is college. It is expected that students be on time, sit toward the front of the room, and fully participate in classroom discussions. Failure to do so will adversely affect your grade.

Cheating: There is a zero tolerance policy. Any cheating whatsoever will result in an automatic F in the course and the matter will be turned over to the appropriate student disciplinary committee. Submitting a quiz for another student and/or using another student's iClicker, or two remotes, are also considered cheating. Taking out a cell phone during an exam is considered cheating, your exam will be confiscated and you will receive an F in the course.

Study skills: To gain the most from lectures, it is best to read relevant text material and class notes beforehand and make a few notes or prepare questions for especially difficult material. Do not be overly concerned if you do not immediately grasp the material, if it were that easy we would not need lectures. During class pay attention and take complete and orderly notes. Do not assume you will remember things because they are easy or obvious; several weeks later when you are preparing for an exam they may not seem so easy or obvious. Pay particular attention to diagrams, lists and terms, as well as anything the instructor clearly emphasizes by tone of voice. When your instructor says you must know something, then you must!

During lecture do not hesitate to ask questions, make constructive comments or contribute if you have expertise on a particular subject. The only "dumb question" is an un-asked one. Very soon after class you should re-read the text material along with your notes. You may find you missed something in lecture or the text, and very frequently you may find misspellings in your notes. Make frequent use of your text glossary and index for further explanations on a subject

you still don't understand. At the beginning of the next lecture period ask the instructor to clear up any problems you may still have. This will help both the instructor and the other students. The instructor needs your feedback in order to know if the class is encountering any problems. Note that **you** determine the pace of the course. If there are no questions then your instructor will continue lecturing.

Lecture Schedule
Topic
Introduction/Science
Creationism and Teaching Evolution
Video: Scope Monkey Trial
Evolution/Creation Court Cases
History of Evolutionary Thought
Video: Charles Darwin: Evolution's Voice
Darwin's Theory of Evolution
Mendelian Genetics
Beyond Mendel
Cell division
Meiosis
Video: The Secret of Photo 51
DNA
What Are Genes?
Population Genetics
Natural Selection
Speciation
Evidence For Evolution: Biogeography
Evidence For Evolution: Paleontology
Video: Great Transformations
Evidence For Evolution: Comparative Anatomy
Evidence For Evolution: Biochemistry
Origin of Life
Cladistics
Additional if Time

The above schedule and procedures in this course are subject to change in the

event of extenuating circumstances.