

BIOL 1010: Principles of Biology (Rev. 2/17/2010)

Spring 2010, 3 Units

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Office hours: Tues. 11:15-12:20, Wed. 10:10-11:15

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Class meeting times: MWF, 12:20-1:18pm, P 167

Required text: Biology: Concepts and Applications, 7th Edition. Authors: Starr, Evers, Starr

Iclickers are required

Class notes, grade status, & lecture materials. Classroom materials will be available through the Blackboard website <blackboard.csustan.edu>. Consult Admissions and Records for login and passwords.

Course goals:

As an introductory course in the biological sciences, our objectives are to:

1. provide an overview of the issues, principles, methodologies, and perspectives of biology
2. provide a working background to critically evaluate biological issues and develop continuous inquiry and life-long learning
3. appreciate the relationships between the fields of biology, chemistry, physics, geology and the other sciences with an emphasis on how these fields are closely inter-related
4. appreciate the interdependence of humans on natural ecosystems and the diversity of life on earth
5. develop more informed and responsible citizens with respect to issues concerning the living world

Grading: Final grades will consist of test scores and quizzes.

Exams: There will be four (4) exams, each worth 100 points. 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 **882-E** to the exams. You must not leave the room during an exam without the instructor's permission. You must turn off cell phones and remove baseball caps during exams.

Note: the Scantron machine sometime makes mistakes, particularly when you change an answer and do not completely erase the other choice. In order to verify these mistakes you must **WRITE** the correct answer on the **question** sheet. Challenges to the machine's accuracy will **not** be accepted if you did not do so. Exams are not given back to students; however, students are welcomed to come to office hours to review their exams.

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 or makeup exams. All requests to take exams at other than scheduled times must be in writing to the instructor at least **one week** prior to the scheduled exam.

Quizzes (100 pts): Throughout the term, unannounced quizzes will be given. Iclickers will be used to take the quizzes. These quizzes are designed to make sure you are regularly attending and reading. **The instructor reserves the right to give unannounced quizzes.**

Tentative Exam Dates: *subject to change in event of extenuating circumstances*
Spring Break: April 5-9, 2010

	Value	Exam Dates
Exam 1	100 pts.	March 12
Exam 2	100 pts.	April 2
Exam 3	100 pts.	May 3
Exam 4	100 pts.	May 24
Quizzes	100 pts.	
Total		500 pts

Grading Scale:

A / 93-100, A- / 90-92

B+/87-89, B/83-86, B-/80-82

C+/77-79, C/73-76, C-/70-72

D+/67-69, D/63-66, D-/60-62

<59, F.

For Credit, a 65% or greater is needed.

Student Conduct: In such a large class, it is essential that students respect the rights of others. Therefore, those who disrupt the class by talking or any other means will be asked to leave. Repeat offenders will be turned over to the appropriate student disciplinary committee. Turn your cell phones to "silent" or turn them off entirely.

Cheating: There is a zero tolerance policy. Any cheating whatsoever will result in an automatic F in the class and the matter will be turned over to the appropriate student disciplinary committee. Submitting a quiz for another student is also cheating.

At the beginning of the next lecture period (or at his office) 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.

The schedule and procedures in this course are subject to change in the event of extenuating circumstances.

Be prepared. Read chapters and review notes before coming to class. Pop quiz questions may come from chapter readings.

Tentative Schedule of Topics

subject to change in event of extenuating circumstances

Topic	Chapter
Intro to Biology	1
Life's Chemical Basis	2
Molecules of Life	3
Cell Structure and Function	4
Ground Rules of Metabolism	5
EXAM 1	March 12
Where It Starts--Photosynthesis	6
How Cells Release Chemical Energy	7
How Cells Reproduce	8
Meiosis and Sexual Reproduction	9
Observing Patterns in Inherited Traits	10
EXAM 2	April 2
Chromosomes and Human Genetics	11
DNA Structure and Function	12
From DNA to Proteins	13
Controls over Gene	14
Studying and Manipulating Genomes	15
Evidence of Evolution	16
Process of Evolution	17
EXAM 3	May 3
Population Ecology	26
Community Structure and Biodiversity	27
Ecosystems	28
The Biosphere	29
Behavioral Ecology	30
FINAL 4	May 24

Tentative furlough days: March 26, April 30