

Biological Science II (BIOL 122)
Spring 2005
EHFA 136, MWF 10:30 - 11:20 AM

Instructor: Dr. John Hutchens

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Office Hours: MWF 8:00-10:30 AM, by appointment, or just stop by.

Course web page: <http://ww2.coastal.edu/jjhutch/bio122.htm>

Required text: Campbell, N.A., and Reece, J.B. 2002. *Biology*. 6th Edition. Benjamin Cummings.

Objectives: BIOL 122 is the second semester of a two-semester introduction to biology for students majoring in biology and related fields of study. I will introduce a variety of topics including evolution, natural selection, plant biology, physiology, and ecology. This material will give you a foundation for understanding biological systems and doing well in your upper-level courses.

Grading: Your grade is based on four lecture exams, six occasional quizzes, and a comprehensive final exam. Quizzes and exams will consist of multiple-choice questions and a few short-answer questions. Quizzes and exams will cover material from both lecture notes and the book, and include both factual and analytical types of questions. Analytical questions will require you to apply your biological knowledge as well as interpret data. Six short quizzes will be given in-class occasionally, and your lowest quiz grade will be dropped. Each exam is worth 100 points.

Cheating on quizzes or exams will not be tolerated, and a grade of F will be given for the assignment.

Point Distribution:

Assignment	Points
Exams	400
Quizzes	50
Final Exam	100
Total	550

Grading scale:

Grade	%	Point Range
A	90-100	492 - 550
B+	87-89	476 - 491
B	80-86	437 - 475
C+	77-79	421 - 436
C	70-76	382 - 420
D+	67-69	366 - 381
D	60-66	327 - 365
F	0-59	0 - 326

Extra Credit Fridays (ECF): There will be five opportunities to earn extra credit points. To earn 4 points on each of these five Fridays, you need to bring in a newspaper article discussing a current event **focused on a biological topic from the preceding 2-3 weeks**. To earn all 4 points you must answer a few questions about the article. **All answers must be typed** and turned in at the beginning of class. Newspaper articles can be from local or national papers, and can either be cut out from 'actual' newspapers or printed from the internet. Articles need to be full-length stories; 1-2 paragraph stories are not acceptable. The three questions to be answered are: 1) What is the main point of the article? 2) Was the article biased? Why or why not? 3) What did you learn from the article? Each answer may be brief, but 1 sentence is insufficient. One point will be deducted for each question not answered or if the assignment is not typed.

Attendance: Attending lecture is not mandatory, but it is the key to doing well in this class. Because I drop your lowest quiz, there are no make-up quizzes unless you are away on a university-related activity. Exams can only be made up if your absence is excused (see the CCU 2004/2005 Catalog, p. 41-42 for details). You must make every effort to inform me that you cannot take the exam **BEFORE** the exam date, or immediately afterwards if you are sick.

Learning disabilities: Students with learning disabilities should see me at the beginning of the semester so special arrangements can be made, if necessary, for your success in this course.

Reminder: Turn OFF your cell phones before class!

Caveat: This syllabus is subject to change at the instructor's discretion.

Tips for success:

- 1) Come to class. Come to class. Come to class.
- 2) Take good notes.
- 3) Ask questions. Question everything. Ask questions.
- 4) Read your text carefully, especially the material I cover in class.
- 5) Study for more time than you think you need to study, and make sure it's quality time.
- 6) Study with others in class.
- 7) Rewrite your notes with what you've learned from asking questions and reading the text.
- 8) Get some sleep before exams.
- 9) Have a good attitude.
- 10) Come to class.

Schedule: This schedule is tentative and subject to change.

Week	Dates	Topic	Chapter Readings
1	Jan 12 & 14	Introduction	22
2	Jan 17: MLK holiday; Jan 19 & 21	Darwin	22
3	Jan 24 - 28; ECF	Population genetics	23
4	Jan 31 - Feb 4; Exam 1-Feb 4	Natural selection; Speciation	24
5	Feb 7 - 11	Origin of life	26
6	Feb 14 & 16; ECW ; Feb 18—C of I	Plant structure	35
7	Feb 21 - 25	Plant transport	36
8	Feb 28 - Mar 4; Exam 2-Mar 4	Plant reproduction	38
9	Mar 7 - 11; ECF	Animal nutrition	41
	Mar 14 – 18	Spring Break	
10	Mar 21 - 23; Mar 25--holiday	Respiratory system	42
11	Mar 28 – Apr 1; ECF Last drop day-Mar 29; Exam 3-Apr 1	Homeostasis	44
12	Apr 4 - 8	Nervous system	48
13	Apr 11 - 15	Population ecology	52
14	Apr 18 – 22; Exam 4-Apr 22	Community ecology	53
15	Apr 25 - 29; ECF	Ecosystem ecology	54
	Wed May 4, 11 AM	Final Exam	