



**BIO 205 *The Organization and Diversity of Life* (3)
Fall 2001**

Instructor: Dr. Lorraine Anderson

Office Hours: T 4:30-5:30

Class Times: T 7:00-10:00

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Location: Room One

Required Texts

Campbell, N.A. Mitchell, L.G. and Reece, J.B., *Biology: Concepts and Connections*. 3rd edition. Benjamin/Cummings: San Francisco, 2000.

Optional Text:

Liebert, R.M. *Student Study Guide for Biology: Concepts and Connections*, 3rd edition. Benjamin/Cummings: San Francisco, 2000.

Course Description

A study of biological concepts and mechanism illustrated by current examples of medical and environmental problems. It involves basic principles of modern biology.

Course Objectives

A student should gain:

1. A greater understanding of the biological sciences
2. A greater appreciation of how knowledge of biological sciences can benefit their lives.
3. A greater understanding of current biological issues that will continue to affect their lives and the lives of future generations.

Course Website

Please check the website regularly as this is where all announcements will be placed. Course notes will be available on the website. The course website is:
<http://www.blackboard.com/courses/205Bio>

Your name will be your first initial followed by your last name and the number 99 unless otherwise notified. Your password initially will be your student id number. You may change your password.

Course Schedule

The pace of the course and the details of the material covered will be governed to some extent by the interest and the level of preparation of the students. The following is a guideline.

Date	Topic	Text Readings
September 11	Introduction Chemical Basis of Life	Chap 1 Chap 2
September 18	Molecules of Cells Tour of the Cell	Chap 3 Chap 4
September 25	Working Cell How Cells Harvest Energy	Chap 5 Chap 6
October 2	Photosynthesis Nutrition and Digestion	Chap 7 Chap 21
October 9	Cellular Basis of Repro- duction Inheritance	Chap 8
October 16	MIDTERM Patterns of Inheritance	Chap 9
October 23	Molecular Biology of the Gene Control of Gene Expression	Chap 10 Chap 11
October 30	DNA Technology and the Human Genome	Chap 12
November 6	How Populations Evolve Origin of Species	Chap 13 Chap 14
November 13	Tracing Evolutionary History Human Evolution	Chap 15 Chap 19
November 20	The Biosphere Population Dynamics	Chap 34 Chap 35
November 27	Communities and Ecosystems	Chap 36
December 4	Conservation Biology Review of Final Exam	Chap 38

December 11

FINAL EXAM

Course Requirements and Grading

There will be 5 short quizzes worth 2% each. They will be given as announced.

There will be one midterm exam worth 35% of the final grade. It will be held from 7:00 to 8:00 on October 16. A lecture will be held after the exam.

A two-hour final exam worth 45% of the mark will be held during the regular lecture time on December 11.

A group project worth 10% of the final grade will be assigned October 23 and handed in on October 30. The contents of this assignment will be discussed later in the term.

It is expected that students will attend all lectures. For examination purposes, student will be held responsible to all lecture material and assigned readings.

Important Notes

The Minimum Standards for Written Compositions will apply in this course. Please see me if you do not have a copy.

The last day to withdraw from the class without academic penalty is November 7, 2001. The last day to withdraw from this course and still receive a refund is September 28, 2001.