

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREA

BIOLOGY

1. Catalog Description of the Course.

BIOL 200 PRINCIPLES OF ORGANISMAL AND POPULATION BIOLOGY (4)

Three hours of lecture and three hours of laboratory per week.

An introduction to organismal biology including the diversity, comparative structure, organ system function, development, phylogeny, taxonomy and systematics of prokaryotes, protists, fungi, plants and animals. Discussion of the principles of evolution including speciation and natural selection, the environmental impact and ecosystem interaction of plants and animals, the behavior of animals, population genetics and population biology. A lab fee is required.

GenEd: B2

2. Mode of Instruction.

	Units	Hours per Unit	Benchmark Enrollment
Lecture	___3___	___1___	___48___
Seminar	_____	_____	_____
Laboratory	___1___	___3___	___24___
Activity	_____	_____	_____

3. Justification and Learning Objectives for the Course.

BIOL 200 is one part of a two semester sequence in General Biology which is required for all Biology majors. Students will gain a basic understanding of foundational biological concepts and processes. They will be exposed to the broad spectrum of life on the planet and gain a better understanding and appreciation of how abiotic and biotic factors impact on the behavior of organisms. And how living systems are impacted by human activities.

Students who successfully complete this course will be able to:

- define basic biological concepts and processes
- describe levels of organization and related functions in plants and animals
- identify the characteristics and basic needs of living organisms
- explain the processes of growth and development in individuals and populations
- describe the relationships between organisms and their environment
- identify impacts on ecosystems

4. Is this a General Education Course YES

If Yes, indicate GE category:

A (English Language, Communication, Critical Thinking)	
B (Mathematics & Sciences)	2
C (Fine Arts, Literature, Languages & Cultures)	
D (Social Perspectives)	
E (Human Psychological and Physiological Perspectives)	

5. Course Content in Outline Form.

1. Introduction to scientific method
2. Basic ecological principles
3. Ecosystems
4. Evolutionary principles
5. Population growth
6. Prokaryotes and viruses
7. Eukaryotes: fungi, protists, plants, invertebrates and vertebrates
8. Animal behavior
9. Environmental impact on ecosystems

6. References.

Campbell, Neil & Reece, Jane. 2002. *Biology*. Benjamin Cummings
 Johnson, George B. 2003. *The Living World*. McGraw Hill.
 Moore, Randy & Vodopich, Darrell 1995. *General Biology Laboratory Manual*. McGraw Hill.
 Shimeld, Lisa 2003. *Student Study Guide to accompany The Living World*. McGraw Hill

7. List Faculty Qualified to Teach This Course.

Biology faculty

8. Frequency.

a. Projected semesters to be offered: Fall X Spring X Summer

9. New Resources Required.

- a. Computer (data processing), audio visual, broadcasting needs, other equipment
- b. Library needs
- c. Facility/space needs

Biology teaching laboratory with standard laboratory equipment and supplies.

10. Consultation.

Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

Ching-Hua Wang _____ 20th Dec 02 _____
 Proposer of Course Date