

CATALOG INFORMATION

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Dept & Nbr: BIO 200 Title: CONCEPTS OF BIOLOGY  
Full Title: Concepts of Biology

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 3.0	Lecture	3.0	17	Lecture	51.0
Min: 3.0	Lab	0.0		Lab	0.0
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	3.0		Contact Total	51.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic  
Grading: GC Credit course for grade or CR/NC  
Repeatability: 00 No repeatability allowed or defined  
Also listed as:

CATALOG DESCRIPTION:

This course is designed for non-science majors as a survey of the characteristics, structures and processes of living organisms as they relate to society and the environment.

PREREQUISITES:

COREQUISITES:

RECOMMENDED PREPARATION:

No advisories.

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

This course is designed for non-science majors as a survey of the characteristics, structures and processes of living organisms as they relate to society and the environment. (Grade or CR/NC)  
Transfer Credit: CSU; UC.

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE:		Effective: FALL	1981	Inactive:
Area:	A	NATURAL SCIENCES		
CSU GE:		Effective: FALL	1981	Inactive:
Transfer area:	B2	LIFE SCIENCE		
IGETC:		Effective: FALL	1996	Inactive:
Transfer area:	5B	BIOLOGICAL SCIENCES		
CSU TRANSFER:	TRANSFERABLE	Effective: FALL	1981	Inactive:
UC TRANSFER:	TRANSFERABLE	Effective: FALL	1995	Inactive:

CAN:

CERTIFICATE APPLICABLE: N NOT CERTIFICATE/MAJOR APPLICABLE

APPROVAL AND DATES

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Version 03 Submitted by: ALAN WEST Date: 09/24/2008  
Department approved: Debra Polak Date: 10/10/2008  
Curriculum approved: 11/14/1995 Version approved: 09/12/2008  
Prerequisites approved: 09/12/2008 Last reviewed: 09/12/2008  
Term effective: SPRING 2009 Last taught: Inactive:

COURSE CONTENT

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OUTCOME AND OBJECTIVES:

1. Develop a broad understanding of the fundamental principles of living things.
2. Develop an understanding of the critical biological and environmental issues facing human beings.
3. Develop critical thinking skills by using the scientific method of problem solving.

TOPICS AND SCOPE:

1. Characteristics of Life
2. Basic Biochemistry
3. Photosynthesis
4. Respiration
5. Transport Systems
6. Nutrients
7. Control within Cells
  - a. Endocrine functions
  - b. Nervous functions
8. Homeostasis
9. Reproductive Strategies
10. Inheritance and Bio Engineering
11. Adaptation
12. Origin of Life
13. Ecology
14. Environmental Concerns

ASSIGNMENTS:

READING ASSIGNMENTS:

Students will be required to read and study the assigned chapters in the textbook and read at least 10 articles from an approved list of periodicals. Examples of appropriate recommended reading are: Science, Scientific American, Omni, and Time.

WRITING ASSIGNMENTS:

Students are required to research and write at least 10 abstracts from an approved list of periodicals.

OUTSIDE ASSIGNMENTS:

Six hours of independent work must be completed outside of class each week. This work includes studying lecture discussions, answering questions in the study guide, and completing 10 abstracts from an approved list of periodicals.

ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING:

Students must interpret lecture discussions and demonstrate understanding by successfully completing required exams. Completion of abstracts requires scientific thought and appraisal.

**METHOD OF INSTRUCTION:**

Lecture, slide presentations, discussions, handouts and reading assignments

For Distance Education Courses:

The content of this course is delivered using some form or forms of distance technology such as television, videotape, audiotape, or the Internet. For telecourses, no less than 11 hours of personal contact between instructor and students shall be included through: group or individual meetings; orientation and review sessions; supplemental in-person activities.

For on-line courses, instructor/student contact may take place in a face-to-face setting and/or through e-mail or other electronic means. Students may interact with each other through in-person study groups, electronic message boards, or other means.

**METHODS OF EVALUATION:**

The grade will be based on at least four semester exams plus the final and at least ten abstracts. Relative weighting is as follows: Exams 60%; Final exam 20%; Abstracts 20%.

**BASIS FOR GRADING:**

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

**REPRESENTATIVE TEXTBOOKS:**

Biology, Concepts and Applications, Star, 7th edition, copyright 2008