**CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS**

# NEW COURSE PROPOSAL

PROGRAM AREA _____BIOLOGY_____

1. **Catalog Description of the Course.** *[Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]*

   BIOL 100. EXPLORING THE LIVING WORLD (4)
   Three hours of lecture and three hours of laboratory per week.
   An overview of biology from the molecular to the ecosystem level. Topics include the origin, diversity and evolution of life, ecology of populations and communities, the structure and function of plant and animal organ systems, biological molecules, cellular structure/function, genetics and cell division. No credit given toward the major in 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.** (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) *[Use as much space as necessary]*

   BIOL 100 is a valuable introduction to the principles and concepts that form the foundation of living systems. This course is designed for non-majors. It will present scientific knowledge in a historical perspective and demonstrate the importance of science to the development of civilizations. It will also provide an overview of biology from the molecular to the ecosystem level. The course uses the scientific method to study the origin, diversity and evolution of life, and builds skills in critical thinking.

   Students who successfully complete this course will be able to:
   - describe levels of organization and related functions in plants and animals
   - identify the characteristics and basic needs of living organisms and ecosystems
   - explain the processes of growth and development in individuals and populations
   - design and critically assess the scientific investigations they perform
   - demonstrate critical thinking skills

4. **Is this a General Education Course** **YES** **NO**
   **If Yes, indicate GE category:**

| | |
|---|---|
| **A (English Language, Communication, Critical Thinking)** | |
| **B (Life Sciences)** | **B2** |
| **C (Fine Arts, Literature, Languages & Cultures)** | |
| **D (Social Perspectives)** | |
| **E (Human Psychological and Physiological Perspectives)** | |

5. **Course Content in Outline Form.** *[Be as brief as possible, but use as much space as necessary]*

- The science of biology: general principles of life science, the living cell, energy and life
- The continuity of life: genetics, evolution, gene technology
- The diversity of life: a survey of organisms from single to multicelled organisms
- Animal and plant life
- Human life: the organ systems
- Life and the environment: ecosystems

**6. References.** *[Provide 3 - 5 references on which this course is based and/or support it.]*


Campbell, Neil A. & Reece, Jane B. 2002. *Biology*. McGraw-Hill.
Johnson, George B. 2003. *The Living World*. McGraw-Hill.
Johnson, Raven. 6th Edition. *Biology*. 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


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**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_
____ _____6 January 2003_____
Proposer of Course Date