

# NEW COURSE PROPOSAL

PROGRAM AREA \_\_\_\_\_

- 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 312. MARINE BIOLOGY (4)

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

Prerequisite: BIOL 200

Overview of the complexity of marine life including marine plants and animals and the processes that underlie their distribution and abundance in open oceans, coastal regions, estuaries and wetlands. Topics included diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. Field trips to local marine environments will be taken. A lab fee is required.

- 2. Mode of Instruction.**

	Units	Hours per Unit	Benchmark Enrollment
Lecture	____3____	____1____	____24____
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]*

Marine Biology is an elective course for Biology and ESRM majors and for non-majors interested in the study of marine science.

Students who successfully complete this course will be able to:

- Identify organisms residing in the Southern California intertidal zone
- Explain the structure and function of marine ecosystems
- Describe the chemical and physical features of seawater and the world's oceans
- Describe organisms residing in the marine environment
- Generate a hypothesis from a set of observations and then design experiments to test the hypothesis

- 4. Is this a General Education Course** YES NO

If Yes, indicate GE category:

<b>A (English Language, Communication, Critical Thinking)</b>	
<b>B (Life Sciences)</b>	
<b>C (Fine Arts, Literature, Languages &amp; Cultures)</b>	
<b>D (Social Perspectives)</b>	
<b>E (Human Psychological and Physiological Perspectives)</b>	

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

Chemical and physical features of the world's oceans

Marine prokaryotes, protists, fungi and plants

Marine invertebrates  
Marine vertebrates  
Intertidal communities  
Estuaries  
Subtidal communities  
Coral reefs  
The ocean depths  
Resources from the sea  
The impact of humans on the marine environment

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

Castro, P. and Huber, M. Marine Biology, 3<sup>rd</sup> Edition. (2000). McGraw-Hill.  
Karleskint, G. Introduction to Marine Biology. (1998). Harcourt Brace and Co.  
Sumich, J.L. An Introduction to Marine Life, 7<sup>th</sup> edition. (1999). McGraw-Hill.

**7. List Faculty Qualified to Teach This Course.**

Nancy Mozingo, Biology faculty

**8. Frequency.**

a. Projected semesters to be offered: Fall \_\_\_\_\_ 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, marine aquaria for housing marine organisms, teaching collection of marine organisms, subject appropriate video tapes.

**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.**

\_\_\_\_Nancy Mozingo\_\_\_\_6 January 2003\_\_\_\_\_  
Proposer of Course Date

## Approvals

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Program Coordinator	Date
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GE Committee Chair	Date
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Curriculum Committee Chair	Date
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Dean	Date
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Effective Semester: \_\_\_\_\_

**California State University Channel Islands**  
**New Course Proposal Consultation Sheet**

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1. Course prefix, number, title, and units: \_\_\_\_\_

\_\_\_\_\_

2. Program Area: \_\_\_\_\_

**Recommend Approval**

<b>Program Area/Unit</b>	<b>Program/Unit Coordinator</b>	<b>YES</b>	<b>NO</b> (attach objections)	<b>Date</b>
Art				
Business & Economics				
Education				
ESRM				
Humanities				
Liberal Studies				
Mathematics & CS				
Sciences				
Library				
Information Technology				