

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer course X A.A. degree applicable course

(check all that apply)

COURSE NUMBER AND TITLE: Biology 131L - Marine Biology Laboratory

UNIT VALUE: 1

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS: Appropriate language skills.

ENTRANCE REQUIREMENTS:

PREREQUISITE: Completion of, or concurrent enrollment in, Biology 131.

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

A survey of local marine organisms, marine institutions, marine parks, and local marine habitats. A field trip oriented course; participation on field trips as scheduled is required.

SPECIFIC COURSE OBJECTIVES:

The successful student will:

1. analyze and identify preserved and live marine plants and animals;
2. analyze marine life forms and the habitat they are adapted to live in;
3. apply principles of taxonomy of marine forms;
4. observe and analyze the marine waters of Southern California by boat studying marine birds, marine mammals, and their environment;
5. progress to advanced studies in marine biology and professions in the marine sciences; and,
6. analyze evolution, taxonomy, physiology, ecology and behavior with an emphasis on California's marine plants and animals.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction to the Marine Environment
 - A. Marine Habitats
 - B. Marine Plant and Animal Phyla
 - C. Macroplants (Algae and Flowering Plants)
 - D. Field Trip - Beach Ecology & Sea Wall Zonation
 - E. Field Trip - Scripps Institute of Oceanography
 - F. Use of Microscopes & Plankton Lab
 - G. Plankton Lab, Zooplankton Emphasis
 - H. Field Trip - Sea World
 - I. Field Trip - Dana Point Reserve
 - J. Field Trip - San Elijo Lagoon and Saltmarsh
 - K. Lab, Study of Fish
 - L. Lab, Chordata (Miscellaneous Reptiles, Birds and Mammals)
 - M. Field Trip - Coronado Islands Boat Trip
 - N. Field Trip - Low Tide

REQUIRED READINGS:

Dawson, E. Sea Shore Plants of California. Berkeley: University of California Press, 1982.

Niesen, T. M. Marine Biology Coloring Book. New York: Harper & Row, 1982.

SUGGESTED READINGS:

Steinbeck, J. Log of the Sea of Cortez. Mamarneck: Paul A. Appel, 1971.

REQUIRED WRITINGS:

Laboratory writing assignments may include keeping a laboratory or field journal, a question diary, reviews of articles, and other assignments. Students will write approximately twenty pages.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short term classes.

Outside assignments include studying lecture notes, reading text, completing writing assignments, and preparing a field journal.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes _____ No x

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

GRADING POLICY AND STANDARDS (include methods for determining whether the stated objectives have been met by students):

Students will be evaluated through examinations, the laboratory field journal, laboratory reports, and other assignments. Approximately 70% of the grade is determined from examinations and 30% from other assignments and reports.

Is course repeatable for reason(s) other than deficient grade?

YES _____ NO x Number of times course may be taken for credit 1

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: DANIEL SOURBEER, x.2775

SIGNATURES:

SIGNATURES ON FILE

November 16, 1995
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