

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

Transfer course A.A. degree applicable course

(check all that apply)

COURSE NUMBER AND TITLE: Biology 195C - Field Studies in Marine Biology

UNIT VALUE: 1, 2 or 3 **MINIMUM NUMBER OF SEMESTER HOURS:** 32, 64, 96

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS: None

PREREQUISITE:

COREQUISITE:

RECOMMENDED PREPARATION:

SCOPE OF COURSE:

Field study of the fauna and biota of marine intertidal and subtidal habitats of selected geographic regions, with emphasis placed upon field identification, observation and interpretation of behavioral and ecological interrelationships of living things to their environment and to one another. *See Class Schedule for locality to be visited. Fee charged.*

SPECIFIC COURSE OBJECTIVES:

The successful student will:

1. become acquainted with specific types of intertidal and subtidal marine communities that exist in various parts of the world.
2. apply prerequisite basic knowledge of marine organisms and habitats in general to the specific area under investigation, effectively utilizing the travel library of basic references in marine biology.
3. use field guides and keys to identify observed species of marine animals, algae, and angiosperms.

4. demonstrate understanding of the characteristics of the major taxonomic groups to which the observed species belong.
5. demonstrate proficiency in making on-the-spot written and graphic observations, especially of the behavior and interactions of marine animal species.
6. develop an understanding of the complex web of adaptations by which marine organisms interact with one another and successfully exploit their habitats.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

Each field class may have a different itinerary and cover different geographical regions and habitats that marine life live in. However, a common body of knowledge would include an understanding of major groups of marine organisms of the region visited including:

1. Intertidal and subtidal habitats and parameters that define these.
2. Major taxonomical groups of marine plants and animals and their habitats.
3. Identifying features of marine plant and animal species.
4. Characteristics of taxonomic groups to which the observed species belong.
5. Behavior and interrelationships between marine organisms.
6. Habitat complexity, organism interaction and exploitation.

REQUIRED READINGS:

College-level references including periodical and book sources. Varies according to locale; a travelling library of field guides and references will be brought to the class for use in identification and expanding upon the field log. Other material, such as instructor-generated handouts may also be required readings.

Example: Sterrer, W. Marine Fauna and Flora of Bermuda. New York: J. Wiley, 1986.

SUGGESTED READINGS:

A large selection of suggested readings is available to students (e.g., texts by Audubon, Peterson's guides as well as other location-oriented field guides).

REQUIRED WRITINGS:

A field notebook -"LOG" - is required of all students. Writings in the log should include: abiotic and biotic parameters observed, associations and behaviors studied, and a record of species identified. The quantity of writing will vary with the number of units; a minimum of 12 pages or 2,000 words of writing per unit is expected. Proper grammar and linguistic style are required.

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 reading assignments include: predeparture readings in text and other course materials, as well as readings of course materials during trip, study of lecture notes, and preparation and review of field log.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

Lecture-laboratory; in-depth field 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

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

- telecourse
- mediated instruction
- computer assisted instruction

GRADING POLICY AND STANDARDS:

Participation in the daily class activities	= 60%
Writings including the "log" (field journal)	= 40%
TOTAL	=100%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

YES NO Number of times course may be taken for credit 4 times

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

CONTACT PERSON:

DANIEL SOURBEER, x.2775