
Oceanography and Marine Studies

Administered by the
Department of Geological Sciences

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Faculty Committee for Marine Studies

Richard M. Gersberg, Ph.D., Professor of Public Health,
Interim Director of Coastal and Marine Institute
Todd W. Anderson, Ph.D., Associate Professor of Biology
Stephen A. Schellenberg, Assistant Professor of Geological Sciences

General Information

San Diego State University provides preparation for ocean-oriented careers by offering marine-related coursework, research opportunities and oceanographic experience within regular degree programs in the Departments of Biology, Chemistry and Biochemistry, Economics, Civil and Environmental Engineering, Mechanical Engineering, Geography, Geological Sciences, and the Graduate School of Public Health. Degrees in general oceanography or marine studies are not offered by the university. However, a Master of Arts or Master of Science degree may be earned as an Interdisciplinary Studies major (see the appropriate section in this bulletin).

Specific courses in oceanography (listed below) are offered with the cooperation of faculty from the participating departments. Advanced coursework and research in geological and physical oceanography are conducted in the Geological Sciences Department. Advanced courses and research in biological oceanography, marine biology, marine botany, and marine zoology are in the Department of Biology. The major areas of research under the joint doctoral program in ecology include coastal marine ecology, estuarine ecology and aquaculture. The Graduate School of Public Health also offers a Master of Science degree with a concentration in Environmental Health Science and a concentration in Toxicology with focus on water and soil contamination and management of hazardous wastes. Marine-related coursework and research are offered in the Departments of Economics, Geography and in the College of Engineering. Students who require advising in these areas should inquire at the Coastal and Marine Institute or the appropriate department.

The Coastal and Marine Institute coordinates work in the area of marine studies and provides special supporting services to the faculty, staff, and students which includes student advising, assistance in research and publication, and a boat operations and research diving program. The director of the Coastal and Marine Institute reports to the dean of the College of Sciences. The university also operates the Pacific Estuarine Research Laboratory for the study of estuarine and wetland ecology. (See the General Information section of this bulletin.)

Courses Acceptable for Oceanography and Marine Studies

Biology Courses (BIOL) Adviser: Anderson

- BIOL 515. Marine Invertebrate Biology (4)
BIOL 517. Marine Ecology (4)
BIOL 520. Ichthyology (4)

Economics Course (ECON) Adviser: Adler

- ECON 696. Experimental Topics (3)*

Civil Engineering Courses (CIV E) Adviser: Noorany

- CIV E 632. Computational Hydraulics and Hydrology (3)
CIV E 641. Advanced Foundation Engineering (3)

Geography Courses (GEOG) Adviser: Stow

- GEOG 504. Coastal and Submarine Geomorphology (3)
GEOG 508. Environmental Climatology (3)
GEOG 588. Intermediate Remote Sensing of Environment (4)
GEOG 670. Environmental and Resource Conservation Theory (3)
GEOG 770. Seminar in Environmental and Resource Conservation (3)

Geological Sciences Courses (GEOL) Adviser: Schellenberg

- GEOL 540. Marine Geology (3)
GEOL 545. Descriptive Physical Oceanography (3)
GEOL 625. Paleogeology (3)
GEOL 640. Geotectonics (3)

Public Health Courses (P H) Adviser: Gersberg

- P H 634. Environmental Protection (3)
P H 637. Biological Mechanisms of Environmental Toxicants (3)
P H 639. Water Quality Investigation (3)

* Acceptable when of relevant content.