



INSTRUCTORS

Dr. Larry G. Allen (Ecology of Marine Fishes) received his Ph.D. in 1980 from the University of Southern California and has been on the faculty at CSUN since 1982. His research has focused on the biogeography and ecology of California coastal marine fishes.

Dr. Robert C. Carpenter (Phycology) received his Ph.D. in Ecology from the University of Georgia in 1984 and has maintained research interests in coral reef algal communities, herbivore-algal interactions, and how the physical environment influences the structure and function of shallow-water communities. He and his students have studied the physiological ecology of algae that live in the kelp understory environment.

Dr. Peter J. Edmunds (Invertebrate Zoology) received his Ph.D. in 1986 from University of Glasgow and has been on the faculty at CSUN since 1992. His research focuses on the physiological ecology of temperate and tropical reef invertebrates and corals.

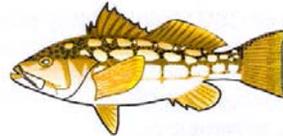
Dr. Mark A. Steele (Ecology of Marine Fishes) received his Ph.D. from the University of California, Santa Barbara in 1995 and has been on the faculty of CSUN since 2006. His research focuses on the population and community ecology of temperate and tropical reef fishes and estuarine fishes.

FALL 2018

27 August 2018 – 7 December 2018
(Thanksgiving Break Nov. 22th – 25th)

OVERVIEW

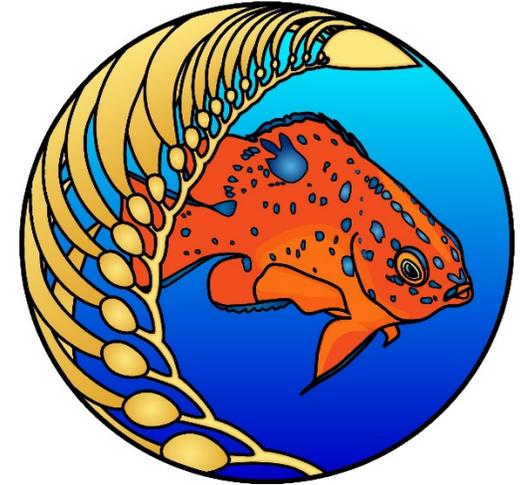
This semester-long program provides an intensive undergraduate exposure to marine biology, and is designed for students with a serious commitment to environmental and marine science. The program is based at the Wrigley Marine Science Center (WMSC), situated on Santa Catalina Island, 26 miles from Los Angeles, CA. This location provides access to beautiful, pristine marine habitats and breathtaking island views. WMSC is owned and operated by the University of Southern California (USC), and the program is being offered through the California State Universities, affiliated with the Ocean Studies Institute (OSI) and the Southern California Marine Institute (SCMI).



Students will spend 15 weeks on Santa Catalina Island and will be based in the newly-renovated dormitory and laboratory facilities. Residency at this marine laboratory provides ready access to an invigorating educational environment that provides both state-of-the-art laboratory facilities and ready access to a diversity of marine habitats. Throughout the semester, students are introduced to a sequence of courses (Fall 2018: Ecology of Marine Fishes, Marine Phycology, and Invertebrate Zoology) that prepare them to complete a directed research study in a topic of their choice. All courses provide a strong element of hands-on field experience, which provides the comprehensive training that can help in career choices and graduate school decisions. A research diving certification course is planned for a period before the semester begins, at an additional cost for qualified students who wish to dive on SCUBA during the semester. However, only snorkeling skills are required for class participation. Please note: these courses will occupy daytime and in many cases, evening hours, including some weekends.

CALIFORNIA STATE UNIVERSITY

MARINE BIOLOGY SEMESTER



SANTA CATALINA ISLAND

FALL 2018

27 August 2018 – 7 December 2018
(Thanksgiving Break Nov. 22th – 25th)

Offered by the
OCEAN STUDIES INSTITUTE

FACILITIES

Students live on a private and undeveloped portion of Santa Catalina Island, approximately 40-50 minutes walk from the Two Harbors settlement which provides access to the commercial ferry to Los Angeles. On-site accommodations are residential dormitory-style, and students receive three meals a day. The laboratory is a short walk from the dorms and includes teaching labs and a well-equipped lecture auditorium. Daily instruction consists of lectures, lab work, and field work in nearby marine habitats. SCUBA diving can be accommodated within the framework of the AAUS diving program.

PROJECTED COSTS*

A. Tuition (15 semester units)*

CSU Undergraduate student	\$ 3,435
CSU Graduate student	\$ 4,152
Non-CA Residents	\$ 9,375
Non-CSU student	\$ 5,940
(Extended Education/Open University Schedule)	

B. Board and Lodging*

(Same for all students) \$ 5,506

C. Lab and Facility Fees*

CSU & students from other CA univ.	\$ 879
Students from out-of-state universities	\$ 5,454

*Note:

- All costs for Fall 2018 are subject to change.
- CSU Students who are non-CA Residents are subject to CSU Out-of-State tuition fees
- Two round-trip passages to the island are included (at the start and end of the semester, and over Thanksgiving).
- There will be additional costs for books, dissecting equipment, library privileges and personal field equipment.



CSUN COURSES (UPPER DIVISION)

Ecology of Marine Fishes (Biol 434/L; 492Q: 4 units) 27 August – 21 September

A course covering species assemblages, general ecology, and behavioral ecology of the marine fishes of Catalina Island and the surrounding waters.

Instructors: **Drs. Larry Allen and Mark Steele**



Marine Phycology (Biol 404/L; 492Y; 4 units); 22 October – 16 November

This course covers the taxonomy, morphology, physiology, and ecology of the major algal groups.

Instructor: **Dr. Robert C. Carpenter**

Marine Invertebrate Zoology (Biol 313/L; 392B: 4 units) 24 September – 19 October

This course provides a classical over-view of marine invertebrate diversity, structure and function through a combination of lecture, lab and field experiences.

Instructor: **Dr. Peter Edmunds**



Directed Undergraduate Research (Biol 490/495: 1, 3 semester units), 19 November – 7 December

Students develop their ideas during the first 12 weeks of the semester, prepare a research proposal, complete their studies, and present their findings in a mini-symposium and a report.

Instructors: **Drs. Allen, Carpenter, Edmunds, Steele**



APPLICATIONS

Applications will be taken until all open spaces are filled. Qualified students are accepted on a first-come, first-served basis. The CSU Marine Biology Semester is an Upper division program that is designed for students who have completed their lower division coursework in Biology. For Fall 2018, after screening by the OSI faculty, registration will be through California State University Northridge (CSUN). CSUN students will register directly through that campus. Other CSU students will need to fill out the Intrasystem Visitor Enrollment form, which will enable registration through CSUN. Units may then be transferred to the appropriate campus. Non-CSU students will need to register through CSUN's Open University Program.

Application and additional information can be obtained by contacting:

**Catalina Semester
Ocean Studies Institute
820 S. Seaside Ave.
Terminal Island, CA 90731-7330
Phone: 310.519.3172
Email: osi.catalina@gmail.com**

Application and information are also available by going to <http://www.scmi.net> and clicking on **CSU Catalina Semester**. For information on diving, click on **OSI Scientific Diving Program**. For additional information on scientific diving, contact **Darrell Moontague, Dive Safety Officer** (Darrell.Moontague@csulb.edu) or 310.519.3172, ext 976