

SEA SEMESTER:

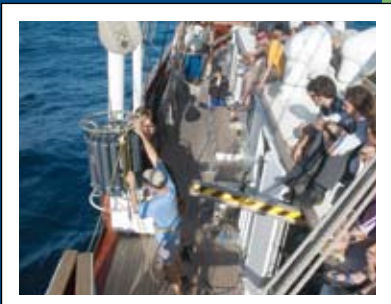
Oceans & Climate

An Upper-Level Ocean Science Semester
Offered by Sea Education Association

Understanding climate change is the predominant scientific challenge of our time, and the timely application of this knowledge to public policy is crucial to the future of the planet. This oceanography-focused semester examines how the global ocean functions in the climate system. Incorporating perspectives from the social sciences, we investigate how scientific knowledge is used in public policy. Together with SEA's experienced faculty, prominent visiting lecturers share their research and work directly with students. A 3000-mile research cruise offers a unique opportunity to study the remote open ocean environment through directed research projects.

On Shore in Woods Hole

During the 6-week shore component, intensive academic coursework prepares students for their research cruise. With full access to SEA faculty, distinguished guest lecturers, and the world-renowned Woods Hole Oceanographic Institution/Marine Biological Laboratory Library, students design original research projects to be completed at sea. Students also work towards establishing seamanship skills while exploring the anthropological connections to their research.



At Sea in the Equatorial Pacific

As full, working members of the scientific team and sailing crew aboard the S.S.V *Robert C. Seamans*, a state-of-the-art research vessel, students deploy oceanographic sampling equipment, complete their research projects, manage shipboard operations, navigate by the stars, and make port stops off the beaten path.

For more information
800-552-3633 x 770 admission@sea.edu www.sea.edu

Former Visiting Distinguished Lecturers

- Dr. Francisco Chavez, Monterey Bay Aquarium Research Institute
- Dr. Scott Doney, Woods Hole Oceanographic Institution
- Dr. Hugh Ducklow, Marine Biological Laboratory
- Dr. Cynthia Pilskaln, University of Massachusetts, Dartmouth
- Dr. Christopher Sabine, NOAA Pacific Marine Environmental Lab
- Dr. Jorge Sarmiento, Princeton University
- Dr. Deborah Steinberg, Virginia Institute of Marine Science
- Dr. Peter Strutton, Oregon State University
- Dr. Matthias Tomczak, University of Flinders

Courses and Credit

A total of 17 credits are issued through Boston University upon successful completion.

Shore Component:

Oceans in the Global Carbon Cycle, 4 credits;
Ocean Science and Public Policy, 4 credits; Nautical Science: Seamanship for Oceanographers, 3 credits.

Sea Component:

Oceanographic Research Techniques, 3 credits; Oceanography Research in Oceans and Climate, 4 credits.





SEA SEMESTER

at Woods Hole and at Sea

Sea Education Association • P.O. Box 6 • Woods Hole, Massachusetts 02543 • 800.552.3633 ext. 770 • www.sea.edu

The oceans need you. They need you to study them and explore and cherish them. I can't think of a more fascinating or exciting area to be working in today than in the marine environment and there is no better way, in my opinion, to learn about the planet's oceans than to do a SEA Semester.

— Sylvia Earle, Ph.D, Explorer-in-Residence, National Geographic Society



SEA Semester: Ocean Exploration

Take an interdisciplinary approach to studying the marine environment by combining the natural sciences, social sciences, and public policy. Open to students from all academic majors.



SEA Semester: Documenting Change in the Caribbean

Study the legacy of European colonialism in the history, culture, and marine environment of the Caribbean. Designed for students interested in the humanities and social sciences.



SEA Semester: Oceans and Climate

Study the role of the oceans in one of the most significant scientific dilemmas of our time: global climate change. An oceanography-focused program designed for upper-level science students.



SEA Semester: Sustainability in Polynesian Island Cultures and Ecosystems

Study the dilemma of environmental and cultural sustainability in French Polynesia. Designed for students interested in environmental studies, humanities, and social sciences.

Sea Education Association (SEA)

For nearly 40 years and more than 1,000,000 nautical miles, SEA has educated students about the world's oceans through a fully accredited off-campus study program that combines perspectives from the sciences, humanities, social sciences, and public policy. Our undergraduate SEA Semester programs combine academic work at SEA's campus in the oceanographic research center of Woods Hole, MA, with practical application of newfound knowledge at sea aboard one of our sailing research vessels.

The SEA Difference

SEA Semester is the only program in the world that brings students from all disciplines to the deep ocean under sail to study the science & culture of the sea. You may be captivated at first by the opportunity to visit exotic ports like Tahiti, the Marquesas, or St. Croix. However, many SEA Semester alumni will tell you that the most captivating destination of all is the sea itself. While there is no one typical SEA student, we do find that certain qualities help people make the most of our programs. We look for motivated students who are passionate about learning, academically capable, willing to seek out our new challenges and eager to become part of a community unlike any other they've experienced.

SEA Sailing Vessels

Since 1971, SEA has educated over 7,000 students about our world's oceans. We are the only ocean education organization that utilizes custom designed and built sail training vessels. The SSV *Corwith Cramer* and SSV *Robert C. Seamans*, both 134' brigantines, are inspected and certified by the U.S. Coast Guard as Sailing School Vessels (SSV), maintained and staffed to the highest standard, and meet or exceed the Coast Guard safety requirements for their class.

SEA Admissions and Financial Aid

Admission Counselors are ready to help you through the process of applying to the SEA Semester that's right for you. Application instructions can be found on our website or you may email admission@sea.edu to get started. SEA offers generous merit and need-based aid packages, a range of scholarships, and is able to process aid that may be transferred from your home institution. We remain committed to making SEA Semester programs affordable for all qualified and motivated students.

SEA Mission Statement

SEA is an educational institution dedicated to exploration, understanding, and stewardship of the oceans, and to the study of humanity's relationship with the oceans. SEA offers students an interdisciplinary curriculum, on shore and at sea aboard tall ships, that provides challenging voyages of scientific discovery, academic rigor, and personal growth.