

# OCEANOGRAPHY

---

Oceanography courses introduce the marine environment, which comprises 71% of the earth's surface. The courses are designed for both science and non-science majors and are fundamental for students planning to major in oceanography. Students planning to transfer to a four-year institution and major in oceanography should consult with a counselor regarding the transfer process and lower division requirements.

---

## Contact Information

Division: Science (PS - 148)

Division Phone Number: (909) 384-8645

Faculty Chairs: Todd Heibel (theibel@sbccd.edu), Ph.D. and Matthew Robles (mrobles@sbccd.edu), M.S.

Counselor Liaisons: Elizabeth Banuelos (ebanuelos@sbccd.edu), M.S. and Erica Begg (ebegg@sbccd.edu), M.S.

---

### OCEAN 101 3 Units

#### Elements of Oceanography

**Lecture:** 54 contact hours

**Prerequisite/Corequisite:** ENGL 101 or ENGL 101H

**Advisory:** MATH 102 or higher

This course explores the geological processes that created the ocean basins, chemistry of sea water, physical motions of the oceans, and the interrelationships of biological communities with their physical environments. Oceanographers and related scientists from traditionally underrepresented groups are featured throughout this course. Environmental issues and environmental justice movements associated with the world's oceans fundamentally inform this course. Geospatial analysis of world oceans, including Geographic Information Systems (GIS) and remote sensing, is an integral component of this course. It is recommended that transfer students also enroll in the companion OCEAN 111, Elements of Oceanography Laboratory.

**Associate Degree Applicable**

**Transfers to both UC/CSU**

### OCEAN 111 1 Unit

#### Elements of Oceanography Laboratory

**Lab:** 54 contact hours

**Prerequisite/Corequisite:** OCEAN 101

This hands-on course introduces students to techniques of oceanography, including bathymetry, charts, and methods of studying the physical ocean environment. Oceanographers and related scientists from traditionally underrepresented groups are featured throughout this course. Environmental issue and environmental justice movements associated with the world's oceans fundamentally inform this course. This course is recommended for students concurrently enrolled in OCEAN 101 or who have successfully completed the course within the last three years.

**Associate Degree Applicable**

**Transfers to both UC/CSU**