

# Marine Biology/ Marine Science

Departments  
and Programs  
in the College  
of Science

Biochemistry &  
Biophysics

Biology

Botany & Plant  
Pathology

Chemistry

Environmental  
Sciences

Geosciences

Mathematics

Microbiology

Molecular &  
Cellular Biology\*

Physics

Pre-professional  
Programs in the  
Health Sciences

Professional  
Science Masters\*

Science &  
Mathematics  
Education\*

Statistics\*

Zoology

\*graduate program only

Marine sciences at OSU includes several well-established programs in the College of Science and other colleges. The marine biology option in the biology program is one of the few intensive undergraduate options in the country, and many undergraduates in the program have the opportunity to conduct marine research with OSU faculty and graduate students. The OSU College of Oceanography is also one of the largest in the United States, and other programs offer marine courses. Finally, OSU has a well-equipped marine research facility, the Hatfield Marine Science Center, with the Oregon Coast Aquarium, located adjacent to Hatfield. Instruction, research, and internship opportunities for students make OSU an excellent place to pursue the study of marine science.

## Career Opportunities

A number of science majors in the College of Science, such as biochemistry, biological sciences (biology, botany, microbiology, zoology), chemistry, environmental sciences, geography, geology, mathematics, and physics, can prepare students for graduate studies in oceanography. The head advisor in the College of Oceanography and other schools should be consulted regarding opportunities for research and information that prepares students for graduate study in oceanography.

OSU students interested in marine biology may choose to pursue the marine biology option in the biology program, or the aquatic biology option in the environmental sciences program. Marine biology option and aquatic biology students begin with a broad background in the various biological sciences, then specialize in marine biology as a portion of their junior and senior years.

The highlight of these programs is Marine Biology (BI450/451), a 16-credit intensive, lecture-and-field course taken in residence at the Hatfield Marine Science Center in Newport (50 miles west from the OSU main campus). During this 10-week spring course, students live at the center and participate in a wide variety of lecture, field, and laboratory activities. Entry into BI 450/451 is by application only (in the fall) and generally requires a 3.0 GPA.

The College of Science has two excellent exchange programs with opportunities in marine sciences. Students can go to the University of Auckland, New Zealand, which offers excellent marine and environmental science courses. Students can also choose to go abroad to the University of Wales, Bangor, which features the finest undergraduate marine laboratory in Europe.

The OSU College of Oceanography only offers graduate degrees in physical, chemical, biological, and geological oceanography, as well as marine resource management. However, they do offer an undergraduate oceanography minor.



# Marine Biology/Marine Science

## Course of Study

The marine biology option is completed in addition to the regular coursework required for a biology degree.

## Marine Biology Option Curriculum

An official graduation checklist may be obtained from an advisor.

Track I		credits	Track II		credits
Marine Biology	BI 450, 451	16	Marine Ecology Lab	Z351/352	3/2
			Invertebrate Biology Lab	Z361/362	3/2
			Aquatic Botany	BOT 416	4
			Symbiosis & the Environment	BI 358	3
At least 5 credits from the following:			At least 5 credits from the following:		
Introduction to Oceanography*	OC 331	3	Biology of Fishes	FW 315	3
Coastal Ocean*	OC 332	3	Systematics of Fishes	FW 316	2
Ocean Research Frontiers*	OC 333	3	Fish. & Wildlife Resource Ecol.	FW 316	2
Aquatic Botany	BOT 416	4	Introd. to Oceanography*	OC 331	3
Marine Ecology Lab	Z 351/352	3/2	Coastal Ocean*	OC 331	3
Invertebrate Biology Lab	Z 361/362	3/2	Ocean Research Frontiers*	OC 333	3

\*Only one of the OC courses is acceptable for the option.

## Course of Study

The undergraduate oceanography minor is suggested for students in any major program in the colleges of Science or Engineering or the Department of Fisheries and Wildlife in the College of Agricultural Sciences. This minor will add interdisciplinary breadth to undergraduate programs, broadening employment prospects and enhancing chances for gaining admission to graduate programs. The minor also provides a broad environmental science background for students planning to become high school teachers of earth or life sciences. The oceanography minor is administered by the Oceanography Student Services office, which provides guidance in completing the minor and having it appear on the student's transcript and diploma.

## Oceanography Minor (27 credits) Curriculum

An official graduation checklist may be obtained from an advisor.

Introduction to Oceanography (recommended)	OC 331	Coastal Resource Management	MRM 415
Coastal Ocean or	OC 332		
Oceanic Research Frontiers	OC 333		
Introduction to Biological Oceanography	OC 440	two of the following:	
Chemical Oceanography	OC 450	Additional course in Oceanography or	
Geological Oceanography	OC 460	Marine Resource Management or	
Principles of Physical Oceans or	OC 430	Introduction to Marine Ecology or	Z 351
Est. and Coastal Ocean or	OC 433	Dynamics of Marine Biology Resources or	FW 431
Coastal Sedimentary Processes	OC464	Introductory Solid Earth Geophysics or	GPH 463
Research Projects or	OC 401	another approved course	
Reading & Conference or	OC 405		
Special Topics in Oceanography	OC 499		

## What to know about Oregon State University

Head Advisor  
College of Science  
128 Kidder Hall  
541-737-4811

OSU Admissions  
104 Kerr Administration  
541-737-4411  
800-291-4192

OSU Financial Aid  
Student Employment  
Loans & Scholarships  
College Work Study  
218 Kerr Administration  
541-737-2241

OSU Registrar  
102 Kerr Administration  
541-737-4331

OSU Housing  
102 Buxton Hall  
541-737-4771

OSU Website  
<http://oregonstate.edu>

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