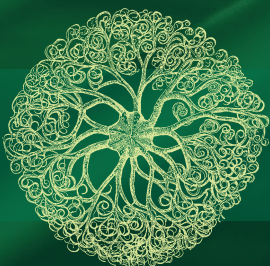




UNIVERSITY OF OREGON

**Oregon
Institute
of Marine
Biology**

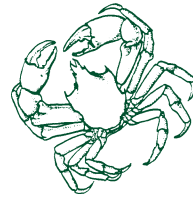
**FIELD
DIARY
SUMMER 2015
LIVE**



Marine Biology on the Oregon Coast



LEARN IT!



The Oregon Institute of Marine Biology (OIMB) has offered a variety of exciting courses in marine biology to undergraduate and graduate students for more than eighty years. Our modern, well-equipped marine laboratory is ideally located for studying marine plants and animals; the dramatic Oregon coast is within walking distance of the laboratory.

The Oregon coast has an exceptionally rich, rocky intertidal shore teeming with colorful marine invertebrates, extensive near-shore kelp beds, and a fantastic variety of marine plants. The Coos Bay estuary, with its remarkable mud, sand, eelgrass, marsh, and piling animals and plants, is also at our front door. The South Slough National Estuarine Research Reserve is located in Charleston. We are close to the harbor entrance so

that ocean organisms can be collected within minutes of leaving the docks. Within eight miles of the marine biology laboratory, sea lions, elephant seals, and harbor seals can be closely observed in their native habitat. Many species of marine birds nest close to the marine laboratory, and sea birds such as albatross can be observed offshore. To the north of the marine biology laboratory extend forty uninterrupted miles of high-energy sandy beaches and dunes.

The summer program has been designed to take advantage of these unique opportunities, giving you a superb hands-on experience in marine biology. We invite you to take part in our summer program. Our courses are designed to stimulate curiosity, excitement, and exploration. You will live with students from a wide range of

cultural backgrounds from all over the United States. Our friendly dining and dormitory accommodations engender an enthusiastic learning and living community.

The OIMB campus includes an attractive dining hall and dormitories, several well-equipped teaching and research laboratories, extensive holding tanks and field-trip staging facilities, faculty housing, a boathouse, a dock, and a lecture auditorium with an impressive view of the bay. The marine biology laboratory has 110 forested acres along the mouth of Coos Bay. Our buildings are located on the bay side of this property, close to the post office and stores of the fishing village of Charleston. We are eight miles from the cities of Coos Bay and North Bend with their airport, libraries, movie theaters, stores, and large oceangoing ship docks. The luxurious coniferous forests of the coastal range, with their lakes, rivers, and streams, offer beautiful hiking trails.

VISIT OUR WEBSITE:
oimb.uoregon.edu/



Courses and Who Should Take Them

The eight-week OIMB summer program is designed for upper-division undergraduates majoring in biology, marine biology, general science, environmental science, or environmental studies, and beginning graduate students. Teachers wishing to gain content knowledge are also encouraged to apply.

This summer we offer courses in invertebrate zoology, marine ecology, marine birds and mammals, and biology of fishes. You also can take a workshop in biological illustration or marine parasites, and participate in our seminar series.

For upper-level undergraduates we offer a dynamic introductory course in experimental design and statistics.

Many field trips are made during summer session, including low-tide visits to the beaches, mud flats, and rocky intertidal shores, and boat trips in the estuary and open ocean.

See what past students have said about OIMB summer courses: oimb.uoregon.edu/academics/summer.

Courses

Courses have a maximum of twenty students and meet for at least seven hours a day in a mixture of lectures, labs, and field trips. The recommended course load for the eight-week session is 12 to 16 credits.

EIGHT-WEEK COURSES

June 22–August 14

BI 451/551 Invertebrate Zoology (8 credits) Introduction to marine invertebrates: morphology, physiology, ecology and natural history, and behavior. Lectures, laboratories, and field trips to sandy, rocky, and muddy intertidal shores. Prerequisites: basic biology and good boots. Meets 8:00 a.m.–5:00 p.m., Monday, Wednesday (until 3:30 p.m.), and Friday, plus early morning field trips. *Troy Nash.*

BI 474/574 Marine Ecology (8 credits) Marine ecology looks at factors that influence the distribution, abundance, and diversity of marine organisms. This course surveys major marine habitats, structurally or functionally important taxa, and ecological patterns and processes. Examples are drawn from the diverse fauna and flora of the rocky shores, sandy beaches, and estuarine environments in the Coos Bay area and field sampling and experimentation is a major portion of the course. Meets 8:00 a.m.–5:00 p.m., Monday, Wednesday (until 3:30 p.m.), and Friday, and for early morning field trips. *Instructor TBA.*

BI 457/557 Marine Biology: Biology of Fishes (6 credits) Lectures, field trips, boat cruises, and laboratory sessions introduce students to the remarkable diversity of fishes. Includes biology, physiology, and ecology of tidepool, estuarine, and marine fishes, and emphasizes data collection and analysis through a study of Oregon's fauna. Meets 8:00 a.m.–5:00 p.m., Tuesday and Thursday. *Instructor TBA.*

BI 455/555 Birds and Mammals (6 credits) The Oregon coast has diverse marine bird and mammal fauna. This course takes advantage of many opportunities to study the biology of the seabirds, seals, sea lions, and cetaceans of the region. Topics covered include systematics, ecology, social systems, morphology, evolution, and physiology. Extensive field trips including boat cruises offer opportunities to study the animals in their natural environment. Laboratory sessions use museum preparations and dissections of fresh specimens to study anatomical and physiological features. Students undertake group projects on nesting seabirds, and give presentations on conservation issues. Meets 8:00 a.m.–5:00 p.m., Tuesday and Thursday. *Jan Hodder and Doug Warrick.*

BI 407/507 Seminar: Marine Biology (1 credit) Guest speakers report on their research. Covers a wide variety of marine topics and provides students with an opportunity to meet marine scientists. Meets 4:00–5:30 p.m., Wednesdays.



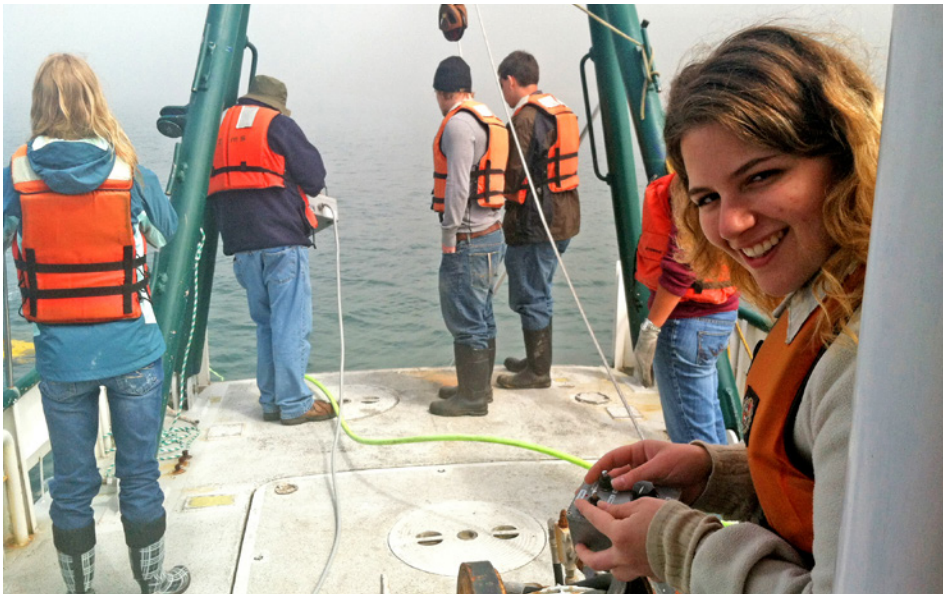
TUITION RATES*

Tuition is based on whether you register for undergraduate (400-level courses) or graduate (500-level courses) credit. Check the appropriate box on the application form.

Credits	Undergraduate Credit		Credits	Graduate Credit	
	Resident	Nonresident		Resident	Nonresident
2	\$703.25	\$1,068.25	2	\$997.25	\$1,213.25
4	1,013.25	1,744.25	4	1,595.25	2,021.25
6	1,323.25	2,420.25	6	2,193.25	2,829.25
8	1,633.25	3,096.25	8	2,791.25	3,637.25
10	1,943.25	3,772.25	10	3,389.25	4,445.25
12	2,253.25	4,448.25	12	3,987.25	5,253.25
14	2,563.25	5,124.25	14	4,585.25	6,061.25
16	2,837.25	5,800.25	16	5,183.25	6,869.25
Each additional credit	155	338	Each additional credit	299	404

*Summer 2014 tuition. Rates are subject to change.

Room and board is \$224 per week (\$1,792 for eight weeks).



WEEKEND WORKSHOPS

June 20–21 and June 27–28

BI 408/508 Biological Illustration (2 credits) This two weekend course shows how to produce accurate drawings of animals and plants suitable for reference, publication, or display. No prior experience is necessary. Techniques include pen and ink, pencil, scratch, and coquille board. Meets 8:00 a.m.–5:00 p.m., Saturday and Sunday. *John Megahan*

July 11–12 and July 18–19

BI 408/508 Marine Parasites (2 credits) Parasites are an integral part of every marine ecosystem. This workshop explores the biology, ecology, and evolution of a diversity of marine parasites, including local and global representatives. Meets 8:00 a.m.–5:00 p.m., Saturday and Sunday. *Maya Watts*

SHORT COURSE

August 17–21 and August 24–28

BI 399 Introduction to Experimental Design and Statistics (4 credits) This two week course is designed for juniors and seniors in the biological sciences who want to become more conversant with experimental design and the use of appropriate statistical tests. It covers data analyses and tests commonly used in biological science. Topics include descriptive statistics, hypothesis testing, analysis of variance, correlation, regression, and experimental design. The courses emphasizes practical approaches to real data using the rich marine environment of the Oregon coast, and is particularly useful for students planning to apply to graduate school. Meets 8:00 a.m.–5:00 p.m., Monday through Friday. *Brian Bingham*



How to Apply

To ensure you have a place reserved in our courses, all students must submit the attached application. On approval, UO students will register for courses on DuckWeb; non-UO students will be registered at OIMB. Students who wish to reserve a dormitory space should complete the housing request on the application form. Please e-mail or call us if you have questions about our summer program.

OIMB Scholarships

Several scholarships are available for summer students. If interested, indicate so on the application form or download information from the web. The scholarship application deadline is May 1, 2015.

Facilities

The OIMB facilities include teaching and research laboratories, animal holding tank facilities, a library, and housing. Wireless internet access is available campuswide.

DORMITORIES The OIMB dormitories are individual or shared spaces with a bed, desk, chest of drawers, wardrobe, and book shelves.

MEALS Good food is a tradition at OIMB, and meals are served daily in the dining hall. Students living off-site may purchase meals on a prorated basis.

CLASSROOMS AND THE LIBRARY All five laboratory classrooms are supplied with running seawater. The library is open 24 hours a day, seven days a week, and is staffed Monday through Thursday.

If you have special needs, please contact us and we will assist in meeting those needs.

APPLY! for Summer 2015 Courses and Housing

Please complete and return this application to OIMB, PO Box 5389, Charleston OR 97420-0605. Please type or print. After June 1, 2015, call OIMB to see if there is space available in the course in which you want to enroll.

Name _____ UO ID or SSN _____
Last First Middle

Date of birth _____

Current address _____
Street number

City State ZIP code Address valid through (date)

Permanent address _____
Street number

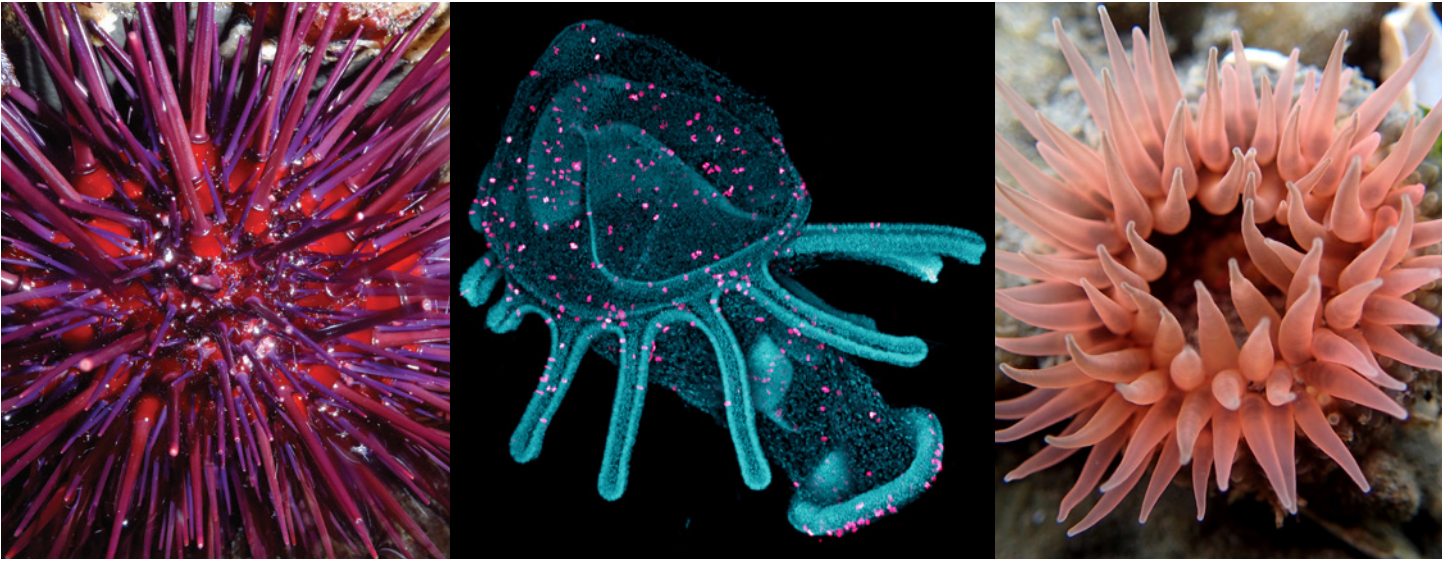
City State ZIP code

Current phone _____ Permanent phone _____

E-mail address _____

continued on next page





APPLICATION FOR SUMMER 2015 COURSES

Check box for undergraduate (400-level courses) or graduate (500-level courses) registration

Course title	Undergraduate (400-level)	Graduate (500-level)
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
Alternative courses		
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>

If you are not a University of Oregon student, please send a copy of your transcript.

Please send information on the OIMB scholarships. Application deadline for scholarships is May 1, 2015.

APPLICATION FOR SUMMER 2015 HOUSING

Please reserve a space for me in the OIMB dormitory. For assignment: Female Male UO graduate student

A dormitory deposit of \$100 is required to confirm your space. Please make checks payable to OIMB.

RESIDENCY INFORMATION

Will you have a BS or BA degree when you attend OIMB? Yes No

Have you previously attended the University of Oregon? Yes No

Which college or university do you currently attend? _____

In which state do you reside? _____

How long have you lived in that state? _____



Additional Opportunities

OIMB offers a marine biology major for undergraduates and additional teaching programs during fall and spring terms. Graduate studies are conducted year-round at OIMB. Contact us or check the web page for further information.

Mail and Transportation

During the summer session, mail sent to students should be addressed to Oregon Institute of Marine Biology, PO Box 5389, Charleston OR 97420-0605. There is commercial airplane service to North Bend and bus service from Eugene to Coos Bay.

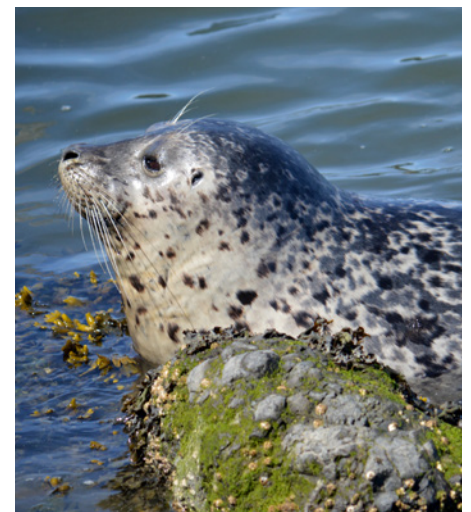
For More Information

OREGON INSTITUTE OF MARINE BIOLOGY

PO Box 5389
Charleston OR 97420-0605
Telephone: 541-888-2581

oimb@uoregon.edu
oimb.uoregon.edu/

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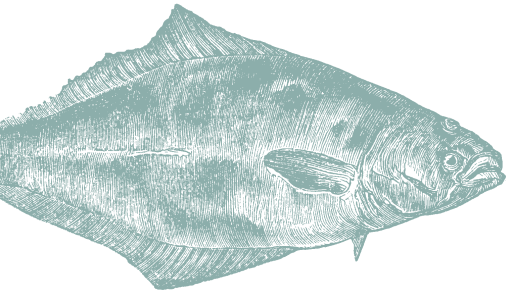
Oregon Institute of Marine Biology

DEPARTMENT OF BIOLOGY

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The 2015 summer program of the University of Oregon's Institute of Marine Biology is described in this brochure. We would appreciate help in making this opportunity known to your students by **posting the announcement on your bulletin board or passing it along to a student adviser**. Scholarships are available for qualified students.

We appreciate your cooperation and hope that we may see some of your students on the Oregon coast next summer. If you are interested in further details on our programs, please contact me.

Sincerely,

Maya Watts
Summer Session Coordinator
mwolf1@uoregon.edu

