The University's marine biology station at Charleston is an ideal location for the study of marine systems. Many habitats are within easy reach of the laboratory. To the north are 50 miles of sandy beaches, and to the south are extensive rocky shores. OIMB is at the entrance to Coos Bay and adjacent to the South Slough National Estuarine Research Reserve; estuarine and open ocean habitats are only minutes away. OIMB offers a variety of courses during the summer term. In addition to the eight week term, several two week and weekend workshops are available. Courses are open to qualified students from all institutions as well as those interested in continuing education. Courses are designed for upper-division marine biology and biology majors, and environmental science majors. Courses meet for at least seven hours a day and include extensive field work. The recommended course load for the eight-week session is 12 to 16 credits. All students planning to take OIMB courses should fill out an application form (attached to this sheet). OIMB Scholarship information is on the OIMB web site.

8-Week Courses: June 24 – August 16, 2019

BI 451/551 Invertebrate Zoology (8 quarter hour credits) Introduction to the diversity of marine invertebrates: what they look like, how they work, where they live, and their natural history and behavior. Fulfills Area 2 major requirement. Meets 8:00am - 5:00pm Mon., Wed. and Fri. Instructor: Troy Nash

BI 455/555 Marine Birds and Mammals (6 quarter hour credits) Topics covered include systematics, ecology, social systems, morphology, evolution, and physiology. Meets 8:00am - 5:00pm Tues. and Thurs. Instructor: Doug Warrick

BI 457/557 Biology of Fishes (6 quarter hour credits) This course 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 8:00am – 5:00pm Tues. and Thurs. Instructor: Paul Cziko

BI 407/507 Seminar: Marine Biology (1 quarter hour credit) Guest speakers present their research. Meets 4:00 – 5:00pm Wednesdays. (Wednesday 8 credit courses end at 3:30pm to accommodate seminar)

4-Week Courses:

June 24 – July 19, 2019 (first 4 weeks of summer term)

BI 457/557 Deep-Sea Biology (4 quarter hour credits) This course is an overview of the organisms, habitats and ecological processes occurring in deep-water systems on the continental shelf and slope, submarine canyons, seamounts, abyssal plains, methane seeps, hydrothermal vents and hadal trenches. Laboratory activities and field trips will strongly supplement lecture material and assigned reading; field work and projects will involve the collection and analysis of offshore trawl, dredge, core, ROV and camera sled data. Meets 8:00am – 5:00pm Mon, Wed. and Fri. Instructor: Craig Young
2-Week Courses:

August 19 – 23 and Aug. 26 – 30, 2019

**BI 399 Introduction to Experimental Design and Statistics** (4 quarter hour credits) A course designed for upper-division undergraduates that explores the principles of experimental design and evaluation of appropriate analysis techniques in ecological studies. Meets 8:00am - 5:00pm  
**Instructor:** Brian Bingham

August 31 – September 14, 2019

**OMBI 488: BI Tropical Marine Biology in Panama** (6 quarter hour credits) An intensive field course in Panama focused on tropical coastal biology and environmental issues. The course will integrate biology of 3 distinctive coastal habitats (coral reefs, mangroves, and seagrass meadows) and consider relevant human environmental issues on global and local scales. The course will be offered in Panama at the Smithsonian Tropical Research Institute’s (STRI’s) Bocas Research Station (BRS). In spring term 2019, students are required to take BI 408 Reading/Seminar. The spring seminar course will require students to read primary and secondary literature that explores the habitats and environmental issues that will be seen in Panama. In summer 2019 students will work to design and plan their research project to carry out during the field course in Panama. **Instructors:** Richard Emlet and Maya Watts.  
**Prerequisite:** BI 451 Invertebrate Zoology.

Weekend Workshops:

All day Saturday and Sunday for two consecutive weekends

June 22 – 23 and June 29 - 30, 2019

**BI 408/508 Biological Illustration** (2 quarter hour credits) How to produce accurate drawings of animals and plants suitable for reference, publication, or display. No prior experience is necessary. Meets 8:00am -5:00pm  
**Instructor:** John Megahan

July 6 – 7 and July 13 – 14, 2019

**BI 408/508 Ocean Acidification** (2 quarter hour credits) A course to introduce students to the dynamic biogeochemical shifts in the world’s oceans and specifically along the Southern Oregon Coast through lectures and field observations. Students will learn more about developing and implementing experiments to explore the impacts of seawater acidification. Students will then use this knowledge and experience to develop their own educational outreach materials to share what they have learned about in this course with local community members and stakeholders. Meets 8:00am – 5:00pm.  
**Instructor:** Julie Schram

July 20 – 21 and July 27 – 28, 2019

**BI 408/508 Marine Bioinvasions** (2 quarter hour credits) Invasions of non-native marine animals and plants have significantly altered the biodiversity of coastal habitats around the world. We examine the theoretical, historical, and ecological concepts and consequences of biological invasions in the sea, review how species have been and continue to be transported globally, and key policy perspectives to prevent and control invasions. The course includes lectures, field work, and laboratory analyses, as we explore the phenomena and processes that influence invasion success. Meets 8:00a.m.-5:00p.m., Saturday and Sunday.  
**Instructor:** James T. Carlton

OIMB INFORMATION  
Tuition and fees are the same as those on main campus. Room and board is $224/week subject to fee increases. To apply for courses and room and board return the application form on the reverse of this announcement. If you have questions about summer term courses contact OIMB: oimb@uoregon.edu. Phone:541-888-2581 or visit the biology advising office in Klamath Hall.
APPLICATION FOR SUMMER COURSES AT THE OREGON INSTITUTE OF MARINE BIOLOGY

Please print out this form, fill out the details and return it by May 30* to: OIMB, PO Box 5389, Charleston, OR 97420, or email it to Tammy Trost at ttrost@uoregon.edu with “2019 Summer Application” in the subject.  
*After May 30 please call OIMB: 541-888-2581 or email Tammy to check if courses have openings.

Name: __________________________ Date of Birth: __________ Age:______ SSN: __________________

Current Address: ________________________________________________________________

Address good through (date):________________________________________________________________________

Permanent Address: ________________________________________________________________

____________________________________________________________________________________

Current Phone: _______________ Permanent Phone: _______________ Email address: _______________

APPLICATION FOR 2019 SUMMER COURSES
If you are not a University of Oregon student, please send a copy of your transcript.  
UO students: UO ID number: __________________

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Note whether you plan to take the course for undergraduate or graduate credit.

Information and application forms for OIMB Scholarships: http://oimb.uoregon.edu/academics/scholarships/

HOUSING
Do you want to apply for dormitory housing?  Yes / No  If Yes: Female / Male / UO Graduate Student

Housing includes a meal plan through our dining hall. Do you have any dietary restrictions and/or food allergies our cooks should be aware of? _______________________________________

A dormitory deposit of $100 is required. Make checks payable to OIMB.

ACADEMIC RECORD AND RESIDENCY INFORMATION
Will you have a B.S. or B.A. degree when you attend OIMB?  Yes / No
Have you previously attended the University of Oregon?  Yes / No
In which state do you reside? __________ How long have you lived in that state? ______________

The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity in compliance with the Americans with Disabilities Act. Accommodations for people with disabilities will be provided if requested in advance.