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 26 – August 18, 2023

**BI 451/551 Invertebrate Zoology** (8 quarter hour credits) An introduction to the diversity of marine invertebrates e.g., all multicellular marine animals, except the vertebrates. What they look like (body plans & structure), how they work (functional morphology), where they live, their natural history and behavior (general ecology). Lectures will introduce organisms, explain their form & function, and include current views of evolutionary origins and phylogenetic relationships. Field trips will explore animals in their habitats and labs will allow careful study of living invertebrates, emphasizing form and function. *Fulfills Area 2 major requirement.* Meets 8:00am - 5:00pm Mon., Wed., and Fri. **Instructor:** Josh Lord

**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

**Marine Biology: Seaweed Biology and Ecology** (6 quarter hour credits) This class provides an overview of seaweed biology, diversity, evolution, and ecology. Students will become familiar with the diversity of seaweeds in Oregon and learn to identify and prepare seaweed herbarium specimens. Fields trips to local intertidal and marina sites for collection, surveys, and observation will emphasize community structure and interactions. Assignments include field studies, reading and discussing scientific literature, student projects, seaweed anatomical and taxonomic studies, individual and group research. Meets 8:00am – 5:00pm Tues. and Thurs. **Instructors:** Christopher Wells and Kailyn Tonra

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

June 26 – July 21, 2023 (first 4 weeks of summer term)

**BI 457/557 Deep-Sea Biology** (5 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 21-25 and Aug. 28-Sept. 1, 2023

**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

Weekend Workshops:

All day Saturday and Sunday for two consecutive weekends

June 24-25 and July 1-2, 2023

**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

Aug. 5-6 and Aug. 12-13, 2023

**BI 408/508 Marine Bioacoustics** (2 quarter hour credits) Underwater passive acoustic monitoring (PAM) is an effective and widely used tool for monitoring the occurrence and behavior of sound-producing marine organisms including marine mammals, fish, and invertebrates. In addition, PAM has applications for assessing marine biodiversity, habitat quality, and anthropogenic noise impacts. This course will introduce students to the physics of underwater sound and basics of signal processing and will provide an overview of biological sounds and applications of PAM in marine ecological monitoring. We will gain hands-on experience by deploying hydrophones in local habitats, and we will work with our recordings as well as pre-existing data sets to learn analysis techniques using freely available bioacoustics software. Meets 8:00am – 5:00pm. **Instructor:** Lisa Munger

OIMB INFORMATION Tuition and fees are the same as those on main campus. Room and board is $245/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: 541-346-7280 or visit the biology advising office in Klamath Hall on main campus.
APPLICATION FOR SUMMER COURSES AT THE OREGON INSTITUTE OF MARINE BIOLOGY

Please print out this form, fill out the details and return to Oregon Institute of Marine Biology, PO Box 5389, Charleston, OR 97420 or email to OIMBAdmissions@uoregon.edu with “2023 Summer Application” in the subject. Applications are to be submitted by May 30, 2023, and are reviewed on a rolling basis until courses are full. Late applications are accepted if space is available. UO students can register using DuckWeb.

*After May 30, please call OIMB: 541-346-7280 or email to check if courses have openings.

Name: __________________________________________ Age: _______

Current Address: __________________________________________

Address good through (date): _________________________________

Permanent Address: _______________________________________

Current Phone: ___________________ Permanent Phone: _____________

Email address: ____________________________________________

APPLICATION FOR 2023 SUMMER COURSES

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

UO students: UO ID number: ___________________________ Major: ___________________________

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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Undergrad Credit</th>
<th>Grad Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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? __________________________________________

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.