

**2020 SUMMER TERM**  
**OREGON INSTITUTE OF MARINE BIOLOGY**

June – August 2020  
oimb.uoregon.edu

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 website.

**8-Week Courses:**

*June 22 – August 14, 2020*

**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: Patrick Baker

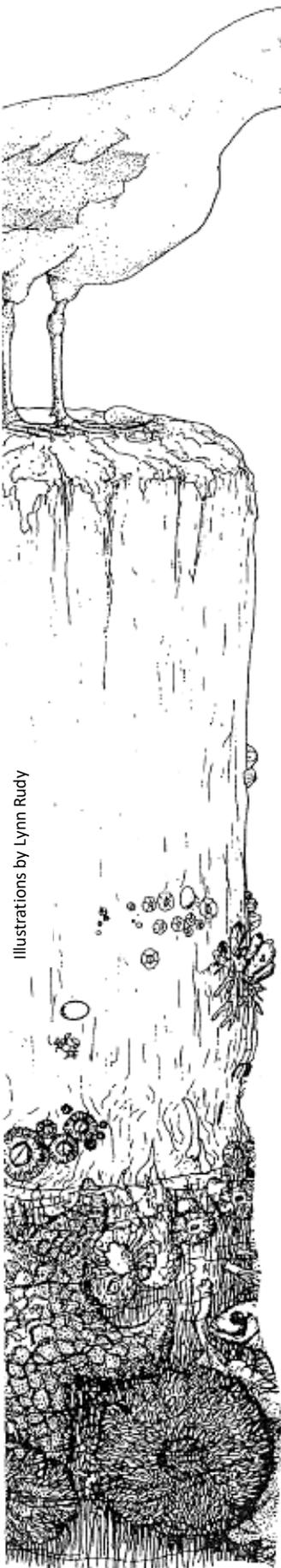
**BI 455/555 Marine Birds and Mammals** (6 quarter hour credits) Topics covered include systematics, ecology, social systems, morphology, evolution, and physiology. Meets 8:00am - 5:00pm Tues. and Thurs. Instructor: Doug Warrick

**BI 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)

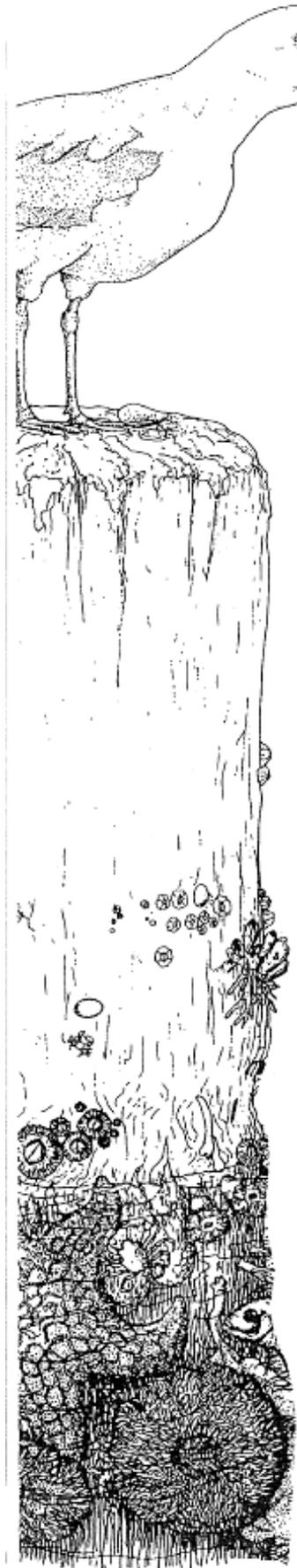
**4-Week Courses:**

*June 22 – July 17, 2020 (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



Illustrations by Lynn Rudy



### **2-Week Courses:**

*August 17 – 21 and Aug. 24 – 28, 2020*

**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 20 – 21 and June 27 - 28, 2020*

**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

*July 11 – 12 and July 18 – 19, 2020*

**BI 408/508 Seaweed Biology** (2 quarter hour credits) An overview of the anatomy, reproduction, phylogeny and taxonomy of seaweed. Students will conduct investigations in the field and laboratory concerning macroalgal reproduction, anatomy, zonation, diversity, and herbivory. Historical distribution of seaweeds at Cape Arago will be compared to current diversity, and students will contribute pressed specimens to the OIMB herbarium. Meets 8:00am – 5:00pm. Instructor: Nancy Treneman

*July 25 – 26 and August 1 – 2, 2020*

**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

### **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](mailto:ttrost@uoregon.edu) with "2020 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: \_\_\_\_\_

Current Address: \_\_\_\_\_

Address good through (date): \_\_\_\_\_

Permanent Address: \_\_\_\_\_

Current Phone: \_\_\_\_\_ Permanent Phone: \_\_\_\_\_ Email address: \_\_\_\_\_

## APPLICATION FOR 2020 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

Course Number	Course Title	Undergrad Credit	Grad Credit
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1.

2.

3.

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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.*