



## 2024 SUMMER TERM

### OREGON INSTITUTE OF MARINE BIOLOGY

June – August 2024

[oimb.uoregon.edu](http://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 web site.

#### **8-Week Courses:**

*June 24 – August 16, 2024*

**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 8:00 a.m. - 5:00 p.m., 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 8:00 a.m. - 5:00 p.m., Tues. and Thurs. Instructor: Doug Warrick

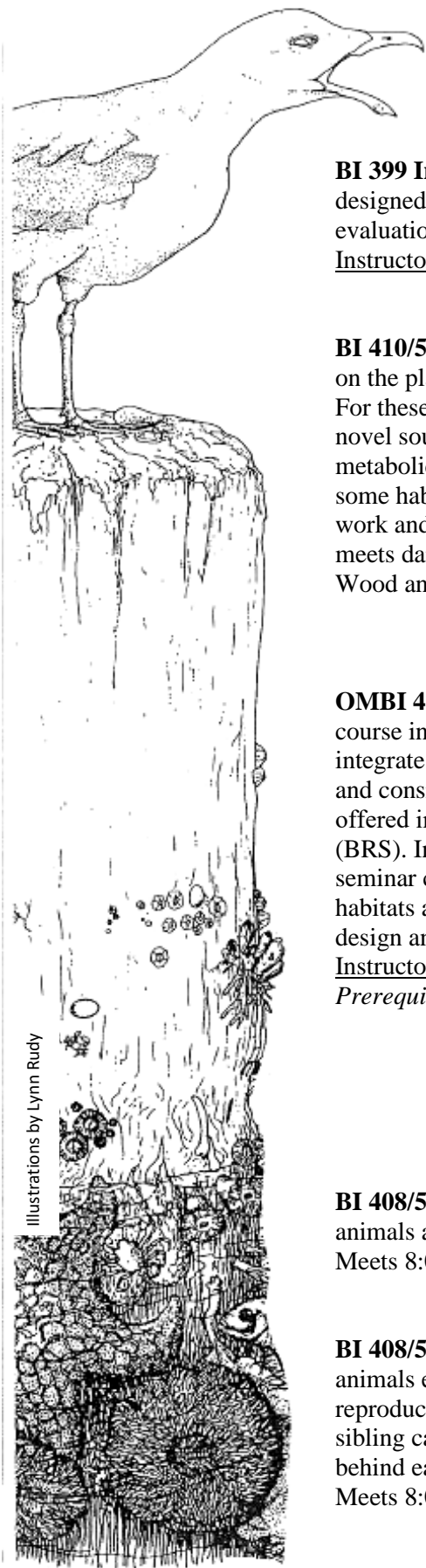
**BI 457/557 Biology of Fishes** (6 quarter hour credits) This course includes biology, physiology, and ecology of tidepool, estuarine and marine fishes, and emphasizes data collection and analysis through a study of Oregon's fauna. Meets 8:00 a.m. - 5:00 p.m., Tues. and Thurs. Instructor: TBD

#### **4-Week Courses:**

*June 24 – July 19, 2024 (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 8:00 a.m. - 5:00 p.m., Mon., Wed., and Fri.

Instructor: Craig Young



Illustrations by Lynn Rudy

## 2-Week Courses:

*August 19 – 23 and Aug. 26 – 30, 2024*

**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 8:00 a.m. - 5:00 p.m., Instructor: Brian Bingham

*August 19 - 28, 2024*

**BI 410/510 Microbial Discovery** (4 quarter hour credits) – The vast majority of biological diversity on the planet is attributed to microbes, organisms that predate animals and plants by billions of years. For these unicells, metabolic diversity is the pathway to adaptation. Exploration of environments with novel sources of energy or carbon continuously reveal new intriguing life forms. We will examine the metabolic roots of microbial diversity, learn basic skills in isolating and culturing microbes, and visit some habitats reminiscent of those on the early earth when all life was prokaryotic. Van travel, field work and overnight tent camping in remote areas (two nights, three days), weather permitting. Course meets daily from Aug 19-28<sup>th</sup>, 8:30 a.m. - 5:00 p.m., **including weekend days.** Instructors: Michelle Wood and Stilianos Louca

*September 5-19, 2024*

**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 three 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 2024, students are required to take BI 405 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 2024 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.

Prerequisites: BI 405 Reading/Seminar, BI 451 Invertebrate Zoology

## Weekend Workshops:

*All day Saturday and Sunday for two consecutive weekends*

*June 29-30 and July 6-7, 2024*

**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 8:00 a.m. - 5:00 p.m., Saturday and Sunday. Instructor: Nora Sherwood

*July 27-28 and August 3-4, 2024*

**BI 408/508 Sex in the Sea** (2 quarter hour credits) Dive into the weird and wonderful ways marine animals ensure successful reproduction in the ocean! This course covers common modes of reproduction, from copulation to sexual confetti, while also investigating some of the oddities, such as sibling cannibalism and larval cloning. We will discuss the biological and environmental drivers behind each reproductive mode and how or why an animal might change its reproductive patterns. Meets 8:00 a.m. - 5:00 p.m., Saturday and Sunday. Instructor: Caitlin Plowman

**OIMB INFORMATION** Tuition and fees are the same as those on main campus. Room and board is \$409/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](mailto:oimb@uoregon.edu).

Phone: 541-346-7280 or visit the biology advising office in 65 Klamath Hall.

## APPLICATION FOR 2024 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 [OIMBAdmissions@uoregon.edu](mailto:OIMBAdmissions@uoregon.edu) with “2024 Summer Application” in the subject.

\*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 2024 SUMMER COURSES

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

UO students: UO ID number: \_\_\_\_\_ Major: \_\_\_\_\_

Course Number	Course Title	Course Number	Course Title
1.		4.	
2.		5.	
3.		6.	

Please note that this application DOES NOT register you for OIMB courses. You will still need to register for OIMB courses through Duckweb during registration week as you would for any other UO courses.

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

### HOUSING

Do you want to apply for OIMB housing? Yes / No

If Yes: Female / Male / Non-binary/Genderqueer/Gender Fluid

Are you comfortable sharing a bedroom/bathroom with (circle all that apply) Men Women Any Gender

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. The University of Oregon is dedicated to fostering inclusive learning environments for all students and welcomes students with disabilities into all of the University's educational programs. The Accessible Education Center (AEC) assists students with disabilities in reducing campus-wide and classroom-related barriers. [If you have or think you have a disability](#) and experience academic barriers, please contact the AEC to discuss appropriate accommodations or support. Visit 360 Oregon Hall or [aec.uoregon.edu](http://aec.uoregon.edu) for more information.*

*You can contact AEC at 541-346-1155 or via email at [uoaec@uoregon.edu](mailto:uoaec@uoregon.edu).*