

# 2024 FALL TERM OREGON INSTITUTE OF MARINE BIOLOGY

September 30 - December 13, 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 over 40 miles of sandy beaches, and to the south are extensive rocky shores. The laboratory is at the entrance to Coos Bay, and estuarine and open ocean habitats are only minutes away. OIMB is adjacent to the South Slough National Estuarine Research Reserve. Classes are small, meet all day, and have a maximum of 24 students. They are designed for juniors and seniors majoring in marine biology, biology, general science, and environmental science. Field trips and lab activities are emphasized. The courses fulfill requirements for UO undergraduates. All students must have completed either BI 211 - 213 or BI 281H - 283H or an equivalent core sequence in biology. UO students register using DuckWeb, non-UO students can use a guest registration found on the web page.

**BI 454/554 Estuarine Biology** (5 quarter hour credits) The biological and physical factors regulating production, abundance, distribution and diversity in estuaries. Includes field trips to marshes, tide flats, eelgrass beds and open waters. Meets Tuesdays 8:30 - 5:00. Instructor: Richard Emlet.

**BI 457/557 Marine Biology: Molecular Marine Biology** (5 quarter hour credits) An introduction to applying molecular biology to research using marine organisms. Lectures and readings examine the use of molecular data in taxonomy and systematics, population structure and conservation biology, and morphological and developmental evolution. Lab exercises include analysis and interpretation of existing data sets and the generation of new data using basic methods. Students acquire practical laboratory skills including collection and preservation of material for molecular work, DNA extraction, PCR amplification of suitable target genes, sequence analysis, and building and interpreting phylogenetic trees. Meets Wednesdays 8:30 -5:00. Instructor: Svetlana Maslakov

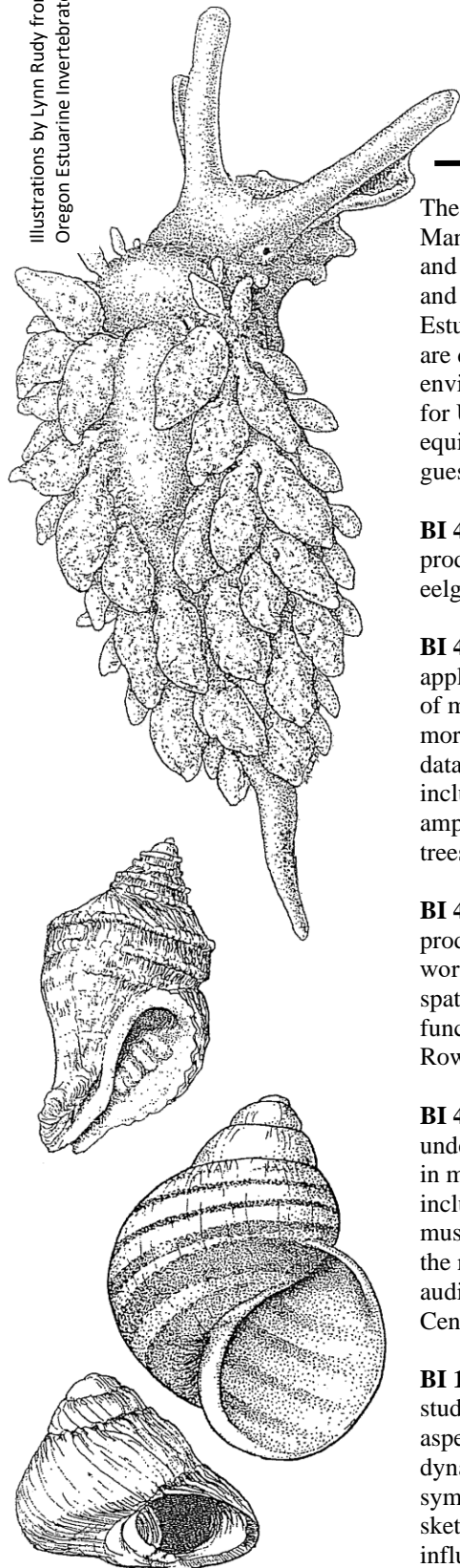
**BI 458/558 Biological Oceanography** (5 quarter hour credits) Examines the patterns of biological productivity and controlling physical and chemical mechanisms in the various environments of the world's oceans. We will study and quantify the dynamics of key oceanographic processes at different spatial and temporal scales and how these impinge on marine ecosystem composition, structure and functioning. Involves field excursions and laboratory work. Meets on Thursdays 8:30 - 5:00 Instructor: Rowan McLachlan

**BI 457/557 Marine Biology: Marine Science Communication (5 quarter hour credits).** The ability to understand and effectively communicate scientific evidence to a variety of audiences is critical to success in many career paths. In this course students will read and write science-based communications including, but not limited to primary literature, scientific reviews, figures and graphs, oral presentations, museum exhibits, K-12 curricula, popular science, and social media. Students in this course will utilize the resources of OIMB to participate in marine science and translate those experiences for a public audience at the Charleston Marine Life Center. Includes a field trip to Hatfield Marine Science Visitor Center and Oregon Coast Aquarium in Newport, OR. Fridays 8:30-5:00. Instructor: Nicole Nakata

**BI 199 Marine Life, Lifestyles, and Habitats** (3 quarter hour credits). This course surveys key case studies that illustrate fundamentals of marine organismal biology. Four chapters examine different aspects of the diversity of life and its interconnections in the sea, covering food webs and trophic dynamics; marine biomes and biogeography; the Tree of Life and the scope of biodiversity; and symbiosis. Course lectures each start with a marine organism of interest as a focus around which to sketch inductive models, explore adaptations, and highlight open questions. Guided readings of influential works in marine biology supplement lectures to illuminate the history of important ideas. **This course is restricted to freshmen. Remote, synchronous course.** MWF 10-10:50am Instructor: George von Dassow

## OIMB INFORMATION

Tuition and fees are the same as those on main campus. Housing at OIMB is available. To apply, return the application form on the reverse of this announcement. If you have questions please contact OIMB at [oimb@uoregon.edu](mailto:oimb@uoregon.edu) or 541-346-7280.



**OREGON INSTITUTE OF MARINE BIOLOGY FALL TERM 2024  
SCHEDULE OF CLASSES**

MONDAY  
TBD

TUESDAY  
**BI 454/554**  
Estuarine  
Biology

WEDNESDAY  
**BI 457/557**  
Molecular  
Marine Biology

THURSDAY  
**BI 458/558**  
Biological  
Oceanography

FRIDAY  
**BI 457/557**  
Marine Science  
Communication

Class hours are 8:30 AM - 5 PM, Monday-Friday with arranged field trips.

**APPLICATION**

Return completed application to OIMB Admissions, Oregon Institute of Marine Biology, PO Box 5389, Charleston, OR 97420 or email to [OIMBAdmissions@uoregon.edu](mailto:OIMBAdmissions@uoregon.edu) with “2024 Fall Application” in the subject. Applications are reviewed on a rolling basis until courses are full. UO students can register using DuckWeb.

NAME \_\_\_\_\_ Pronouns: \_\_\_\_\_

MAJOR \_\_\_\_\_ Graduate/Undergraduate (circle appropriate) YEAR in school: Soph/Jun/Sen

AGE \_\_\_\_\_ UO Student Number \_\_\_\_\_ Telephone \_\_\_\_\_

Home Address \_\_\_\_\_

School Address \_\_\_\_\_

E-mail Address \_\_\_\_\_

Do you want to apply for OIMB housing? Yes / No If Yes: Female / Male / Non-binary/Genderqueer/Gender Fluid

I would be comfortable sharing a bedroom/bathroom with (circle all the apply) – Men Women People of any Gender

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

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

**IF YOU ARE NOT A UNIVERSITY OF OREGON STUDENT:** Please complete the guest student application page, available on the web, and send copies of your transcript with this application. We will notify you of your acceptance within two weeks of receiving your application.

**Please check below the courses you wish to take at OIMB.** The recommended course load is 15-17 credits.

BI 199 Marine Life, Lifestyles, and Habitats (3 credits, remote, Freshmen only)

BI 454/554 Estuarine Biology (5 credits) \_\_\_\_\_

BI 457/557 Marine Biology: Molecular Marine Biology (5 credits) \_\_\_\_\_

BI 458/558 Biological Oceanography (5 credits) \_\_\_\_\_

BI 457/557 Marine Biology: Marine Science Communication (5 credits) \_\_\_\_\_