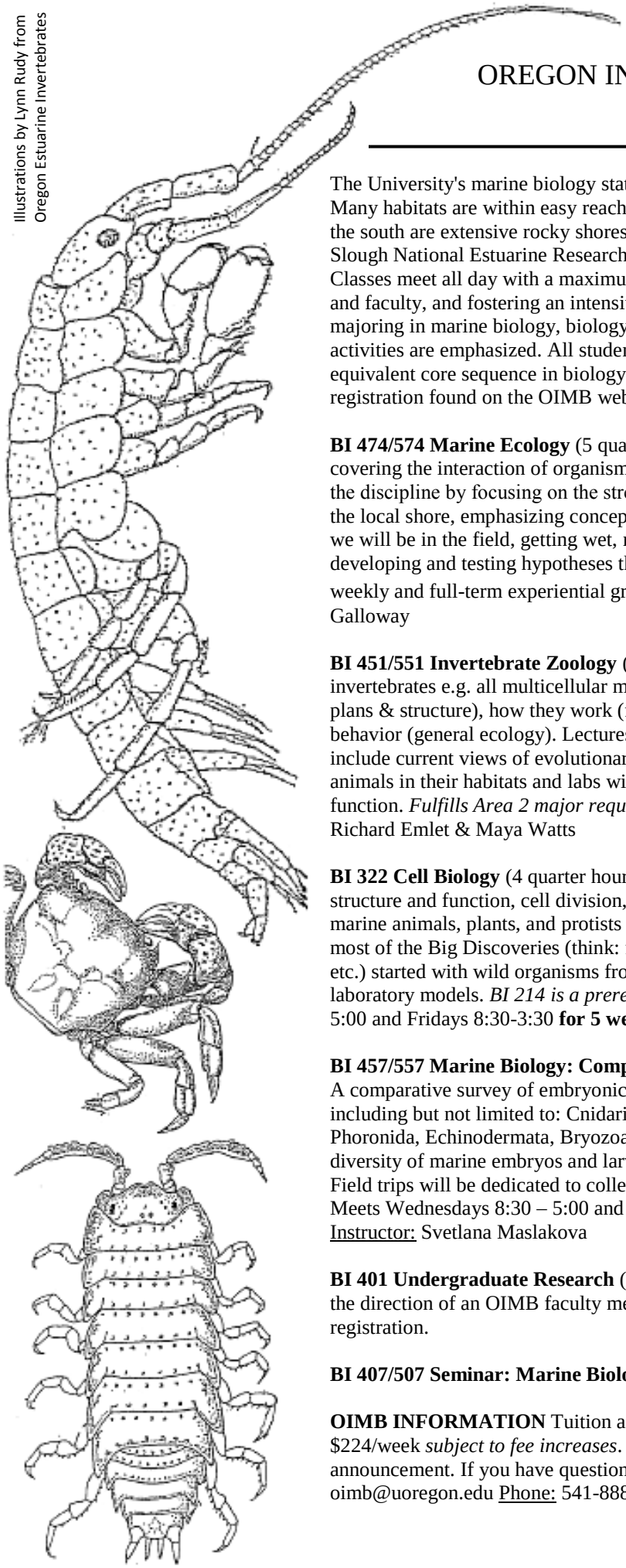
Illustrations by Lynn Rudy from Oregon Estuarine Invertebrates



2018 SPRING TERM

OREGON INSTITUTE OF MARINE BIOLOGY

April 2 – June 15, 2018

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. Classes meet all day with a maximum of 24 students, allowing considerable interaction between students and faculty, and fostering an intensity of learning. The program is designed for juniors and seniors majoring in marine biology, biology, general science, and environmental science. Field trips and lab activities are emphasized. 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 use a guest registration found on the OIMB web page. OIMB scholarship information is on the OIMB website.

BI 474/574 Marine Ecology (5 quarter hour credits) Marine Ecology is an interdisciplinary field covering the interaction of organisms with each other and their environment. In this course, we approach the discipline by focusing on the strengths of our program's unfettered access to the flora and fauna of the local shore, emphasizing concepts and practice of rocky intertidal community ecology. Each week, we will be in the field, getting wet, making observations, and learning how to link these observations to developing and testing hypotheses that connect to fundamental ecological theory. Students will work on weekly and full-term experiential group projects. Meets Mondays 8:30 – 5:00 Instructor: Aaron Galloway

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 Tuesdays and Thursdays 8:30 – 5:00. Instructors: Richard Emlet & Maya Watts

BI 322 Cell Biology (4 quarter hour credits) This course explores the fundamentals of cell biology – cell structure and function, cell division, cell motility and behavior, and how cells live together – using marine animals, plants, and protists as study material. Fun fact: throughout the history of cell biology, most of the Big Discoveries (think: fertilization, centrioles, molecular motors, green fluorescent protein, etc.) started with wild organisms from the marine world, not with the tiny repertoire of modern laboratory models. *BI 214 is a prerequisite. Fulfils Area 1 major requirement.* Meets Wednesdays 8:30 – 5:00 and Fridays 8:30-3:30 **for 5 weeks April 2-May 4**. Instructor: George von Dassow

BI 457/557 Marine Biology: Comparative Embryology and Larval Biology (5 quarter hour credits) A comparative survey of embryonic development and larval forms across marine invertebrate phyla, including but not limited to: Cnidaria, Ctenophora, Platyhelminthes, Annelida, Mollusca, Nemertea, Phoronida, Echinodermata, Bryozoa and Chordata (Tunicates). Students explore the rich and colorful diversity of marine embryos and larvae by culturing dozens of representative species in the laboratory. Field trips will be dedicated to collecting live material for use in class. *Course limited to 14 students.* Meets Wednesdays 8:30 – 5:00 and Fridays 8:30-3:30 **for 5 weeks plus finals week (May 7-June 15)**. Instructor: Svetlana Maslakova

BI 401 Undergraduate Research (2-10 quarter hour credits) Students conduct a research project under the direction of an OIMB faculty member. Email the person with whom you wish to work to arrange for registration.

BI 407/507 Seminar: Marine Biology (2 quarter hour credits) Speakers present research. 4pm Fridays.

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 return the application form on the reverse of this announcement. If you have questions about spring term courses contact OIMB. Email: oimb@uoregon.edu Phone: 541-888-2581. Or visit the Biology Advising office in Klamath Hall.

OIMB SPRING TERM 2018 SCHEDULE OF CLASSES

MONDAY	*TUESDAY*	*WEDNESDAY*	*THURSDAY*	*FRIDAY*
8:30am – 5:00pm	8:30am – 5:00pm	8:30am – 5:00pm	8:30am – 5:00pm	8:00am – 3:30pm
Marine Ecology	*Invertebrate Zoology*	*Cell Biology (4/2-5/4)*	*Invertebrate Zoology*	*Cell Biology (4/2-5/4)*
		Embryology (5/7-6/15)		*Embryology (5/7-6/15)*
				4:00 – 5:00 pm
				Seminar

APPLICATION

Return completed application to Tammy Trost, Oregon Institute of Marine Biology, PO Box 5389, Charleston, OR 97420 or email to ttrost@uoregon.edu with "2018 Spring Application" in the subject.
Applications are reviewed on a rolling basis until courses are full. UO students can register using DuckWeb.

NAME_____

MAJOR_____Graduate/Undergraduate (circle appropriate) Year in school: SOPH JUN SEN

AGE_____ UO ID Number_____ Telephone_____

Home
Address_____

School
Address_____

E-mail Address_____

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? _____

For more information about scholarships, see https://oimb.uoregon.edu/academics/scholarships/
The deadline for scholarship applications is March 1, 2018.

IF YOU ARE NOT A UNIVERSITY OF OREGON STUDENT: Please complete the guest student application page from our web page, and send copies of your transcript with this application. We will notify you of your acceptance within two weeks of receiving your application. Tuition rates for spring term are listed at: https://registrar.uoregon.edu/costs/tuition-fees

Please check below the courses you wish to take at OIMB. The recommended course load is 14 -16 credits

BI 474/574 Marine Ecology (5 credits) _____

BI 451/551 Invertebrate Zoology (8 credits)_____

BI 457/557 Marine Biology: Comparative Embryology and Larval Biology (5 credits) _____

BI 322 Cell Biology (4 credits) _____

BI 407/507 Seminar: Marine Biology (2 credits)_____