

BI 357: MARINE BIOLOGY, Winter 2021

Instructor: Dr. Kelly Sutherland, ksuth@uoregon.edu, 541-346-8783
Office hours: Thurs. 2-4 pm or by appointment, Zoom

GEs: Marco Corrales Ugalde, marcoc@uoregon.edu, Office hour: Thurs.: 4-5 pm
Jessie Masterman, jmaster3@uoregon.edu, Office hour:
Avery Calhoun, acalhou3@uoregon.edu, Office hour: Tues. 2-3 pm

Instructional Biology Assistant: Katie Pérez, kperez@uoregon.edu

Biology Undergraduate Lab Assistants (BULAs): Sam Craig, Olivia Gomez, Melody Lemke, Kyra Lindley, David Slothower

Lecture: Tues., Thurs. 12:15- 1:45 pm, Zoom

Labs: Mon. 10:15-11:45 am, 12:15-1:45 pm, 2:15-3:45 pm, Zoom

Course description

In spite all of the challenges as we move into 2021, I am really excited to be teaching Marine Biology this Winter. My biggest goal this term is for all of you **to engage**-- with each other, with the teaching staff and with the subject.

The oceans cover 71% of the earth's surface host a fascinating diversity of creatures. Life in the ocean is shaped by physical, evolutionary, ecological and human forces. In this course we will survey the diversity of marine organisms with a focus on the Oregon coast. We will learn about adaptations and ecological interactions among organisms and how these interactions vary across marine habitats. Through lectures, in-class activities, laboratory studies, discussions and a team project we will become familiar with marine organisms and use quantitative approaches to understand organism morphology, physiology and behavior.

Learning outcomes

Concept based outcomes:

- Identify major groups of marine organisms with an emphasis on Pacific Northwest
- Describe the function of key marine ecosystems and ecological principles relevant to marine communities
- Understand human interactions with the marine environment

Skills based outcomes:

- Work effectively in pairs/teams
- Interpret lab results in context of the primary scientific literature through writing lab reports

Text: There is no required text for this course. We will be using open source materials and scientific articles provided through Canvas. The supplementary texts below are optional.

Supplementary texts (on reserve in library; purchase NOT required):

Marine Biology (Castro & Huber 8th, 9th, 10th, 11th Eds.)

Seashore Life of the Northern Pacific Coast (Kozloff, E. 1993)

Whelks to Whales: Coastal Marine Life of the Pacific Northwest. (Harbo, R., 2nd Ed. 2011)

Course requirements

Assignments will include readings, **9 weekly Canvas quizzes** (available each Wed. until just before class on Thurs.), **4 lab reports**, a **paper summary**, a **mid-term**, a **final** and a **final project** with a team oral presentation. Lab reports will help students become familiar with the format of science writing and will help students to hone their scientific writing skills in preparation for the final research proposal, in which each team defines a research question of their choosing to be presented at the end of the course.

Class participation

Participation through active engagement and discussion during synchronous Zoom meetings, class activities and presentations students are core aspects of your study. It is your responsibility to show up for class prepared to discuss readings, video lectures and assignments. Your participation grade is based on attendance in class and engagement in in-class activities.

GRADING STRUCTURE

Midterm and final = 40%	(2 exams, 200 pts each)
Labs = 20%	(4 labs, 50 pts each)
Term project = 20%	(200 pts)
Weekly Canvas quizzes = 10%	(9 quizzes, 12.5 pts each)
Paper Summary = 5%	(50 pts)
Class participation = 5%	(50 pts)

Grading scale (Total possible points = 1000)

>97 A+; 93-96.9 A; 90-92.9 A-; 87-89.9 B+; 83-86.9 B; 80-82.9 B-; 77-79.9 C+; 73-76.9 C; 70-72.9 C-; 67-69.9 D+; 63-66.9 D; 60-62.9 D-; <59.9 F

COURSE POLICIES

Communicating with me

Our class will communicate through our Canvas site. Announcements and emails are archived there and automatically forwarded to your UO email, and can even reach you by text. Check and adjust your settings under Account > Notifications.

I will host **“live”** office hours through Zoom each week on Thursdays 2-4 pm. I will also stay live on Zoom for a few minutes after class on Tuesday and Thursday for questions. If you can't make it to my regular office hours, I'm happy to set up an appointment- just email or call me at 541-346-8783 to set a time.

If at all possible, please communicate with me via Zoom during office hours or after class and not via email. I want to get to know you and engage with you and this is much harder to do over email. During this unusual time, I encourage you to talk with me about what you are experiencing so we can work together to help you succeed in this course.

Our GEs, Marco Corrales Ugalde (marcoc@uoregon.edu), Jessie Masterman (jmaster3@uoregon.edu) and Avery Calhoun (acalhou3@uoregon.edu) are excellent resources too. Talk to them during their office hours or email.

We also are fortunate to have five Biology Undergraduate Lab Assistants (BULAs) helping out during lab and lecture. These are students who enjoyed taking the class last year and are happy to be working with you.

Academic integrity

All students will be expected to adhere to the University's guidelines on academic integrity as outlined in the Student Conduct Code: <https://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code>. As detailed in the policy, academic misconduct means the violation of university policy involving academic integrity. This includes cheating ("any act of deception by which a student misrepresents or misleadingly demonstrates that the student has mastered information on an academic exercise that the student has not mastered"), and plagiarism ("using the ideas or writings of another as one's own.") I have a zero tolerance policy for academic dishonesty. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures, which may include receiving a failing grade for this course. Finally, you do not have permission to post any course related material on outside private or public websites (i.e. coursehero, chegg, groupme, etc.). Violations of this request will be considered a form of academic misconduct.

Honor Code

In these trying times it is especially important that we maintain the integrity of university education. Presumably we all value this or we would not be participating. In our remote course, I will ask you to certify that your tests and the final exam are your own work. The tests and final will be timed and Canvas will automatically vary the questions students receive. We will adjust times to support students with accommodations through the Accessible Education Center. If a technological glitch disrupts your exam, don't panic. Take a photo to document the error message you receive and then email your instructor and at least one other staff member so that we can do our best to get back to you as quickly as possible.

Class Courtesy

Open inquiry, freedom of expression, and respect for difference are fundamental to a comprehensive and dynamic education. We are committed to upholding these ideals by encouraging the exploration, engagement, and expression of divergent perspectives and diverse identities. Classroom courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Our Zoom classroom is a learning environment, and as such should be a safe, inclusive and respectful place. Being respectful also includes using preferred pronouns for your classmates. Disrespecting fellow students as well as combative approaches, tones and/or actions are not acceptable. Please make the instructors aware if there are classroom dynamics that impede your (or someone else's) full engagement in our class. For more guidelines for participating in our remote course please carefully read "[guidelines for participating in our remote course](#)" on Canvas.

Specific guidelines for best practices using Zoom:

1. Please use good "net etiquette": identify yourself with your real name. We will gladly honor your request to address you by an alternate name or gender pronoun.
2. All of us occasionally need to hide video, but know that seeing your faces is a joy to me and, I believe, enriches our ways of relating—when you can, I value video on.
3. That said, please be mindful that others can see you and your surroundings if your video is on. Try to find a quiet setting without lots of noise or busy activities in the background. Please minimize distractions like eating or multitasking.
4. For help and troubleshooting with Zoom, visit the [UO Service Portal](#).

Tentative course outline:

Note: All assignments & deadlines are posted on Canvas

Week	Topic (subject to change)	Laboratory topic
1	T: Seawater characteristics TH: Basic oceanography: Circulation, tides, waves (Marco)	Lab writing tutorial 1
2	T: Microbial world TH: Primary Production	Lab 1: Virtual Field
3	T: Seaweeds TH: Invertebrates	NO LAB: Holiday to celebrate MLK
4	T: Nekton TH: Fisheries and marine resources	Lab 2: Macroalgae
5	T: Marine ecology and food webs TH: Midterm	Lab writing tutorial 2
6	T: Benthic communities (Dr. Kevin Du Clos) TH: Estuaries	Lab 3: Zooplankton and Behavior
7	T: Marine Reserves TH: Coral reefs and mangroves	Whale Acoustics tutorial
8	T: Kelp forests and subtidal communities TH: Open ocean plankton	Lab 4: Whale Acoustics
9	T: Deep sea habitats (Avery) TH: Mammals and micronekton (Anna)	Final presentation work session
10	T: Human impacts and climate TH: TBD (Exam review)	Final presentations
	Final exam: 8-10 am, Thurs. March 18th	

Campus resources to support your learning & well-being

Tutoring and Academic Engagement Center

Remote tutoring support: (<https://engage.uoregon.edu/services/>)

Remote learning resources (<https://engage.uoregon.edu/remote-learning-resources/>)

Counseling Center

Call anytime to speak with a therapist who can provide support and connect you with resources.

Located on the 2nd Floor of the Health Center (541) 346-3227

Accessible Education Center

The University of Oregon is working to create inclusive learning environments. The instructor believes strongly in creating inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your participation, please notify us as soon as possible. You are also encouraged to contact the Accessible Education Center. If you are not a student with a documented disability, but you would like for us to know about class issues that will impact your ability to learn, we encourage you to come visit during office hours so that we can strategize how you can get the most out of this course. (541) 346-1155, uoaec@uoregon.edu

Center for Multicultural Academic Excellence (CMAE)

The CMAE mission is to promote student retention and persistence for historically underrepresented and underserved populations. We develop and implement programs and services that support retention, academic excellence, and success at the UO and beyond. We reaffirm our commitment to all students, including undocumented and tuition equity students. (541) 346-3479,

<https://inclusion.uoregon.edu/center-multicultural-academic-excellence-cmae>

Duck Rides provides essential nighttime transportation services for UO students and employees for this academic year 2020-2021. This is a new partnership between UO's existing student ride services and will replace these services as an adjustment to COVID-19. Duck Rides is committed to providing friendly and necessary transportation to students in a safe manner.

Discrimination and Harassment

Prohibited Discrimination and Harassment

Any student who has experienced sexual assault, relationship violence, sex or gender-based bullying, stalking, and/or sexual harassment may seek resources and help at safe.uoregon.edu. To get help by phone, a student can also call either the UO's 24-hour hotline at 541-346-7244 [SAFE], or the non-confidential Title IX Coordinator at 541-346-8136. From the SAFE website, students may also connect to Callisto, a confidential, third-party reporting site that is not a part of the university.

Students experiencing any other form of prohibited discrimination or harassment can find information at aaeo.uoregon.edu or contact the non-confidential AAEO office at 541-346-3123 or the Dean of Students Office at 541-346-3216 for help. As UO policy has different reporting requirements based on the nature of the reported harassment or discrimination, additional information about reporting requirements for discrimination or harassment unrelated to sexual assault, relationship violence, sex or gender based bullying, stalking, and/or sexual harassment is available at [Discrimination & Harassment](#).

The instructor of this class is a Student-Directed Employee. As such, **if you disclose to me, I will respond to you with respect and kindness. I will listen to you, and will be sensitive to your needs and desires. I will not judge you. I will support you.** As part of that support, I will direct students who disclose sexual harassment or sexual violence to resources that can help. **I will only report the information shared to the university administration when you as the student requests that the information be reported** (unless someone is in imminent risk of serious harm or

is a minor). Please note the difference between 'privacy' and 'confidentiality.' As a Student-Directed Employee I can offer privacy because I am not required to report certain information to the university. However, I cannot be bound by confidentiality in the same way that a counselor or attorney is. Confidential resources such as these means that information shared is protected by federal and state laws. Any information that I as a student-directed employee receive may still be accessed by university or court proceedings. This means, for example, that I could still be called as a witness or required to turn over any related documents or notes that I keep.

Please note also that I am required to report all other forms of prohibited discrimination or harassment to the university administration. Specific details about confidentiality of information and reporting obligations of employees can be found at titleix.uoregon.edu.

Mandatory Reporting of Child Abuse

UO employees, including faculty, staff, and GEs, are mandatory reporters of child abuse. Child abuse pertains to individuals who are under the age of 18. This statement is to advise you that your disclosure of information about child abuse to the instructor may trigger my duty to report that information to the designated authorities. Please refer to the following links for detailed information about mandatory reporting: [Mandatory Reporting of Child Abuse and Neglect](#).