



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **ZOOL 200, MARINE BIOLOGY**

3 credits (CRN 63305)

WWW

**INSTRUCTOR:** Pavica Srsen  
**OFFICE:** Hale 'Imiloa 119  
**OFFICE HOURS:** By appointment  
**TELEPHONE:** (808) 236-9257      **EMAIL:** [pavica@hawaii.edu](mailto:pavica@hawaii.edu)  
**EFFECTIVE DATE:** Fall/2022

### **WINDWARD COMMUNITY COLLEGE MISSION STATEMENT**

*Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Ko'olau region of O'ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.*

### **CATALOG DESCRIPTION**

Biological, physical, and chemical characteristics, flora and fauna, and interactions of components of marine ecosystems; survey of marine environments; utilization, exploitation, pollution, and conservation of marine resources; with special emphasis on the Hawaiian marine environment. (3 hours lecture) WCC DB

### **PREREQUISITES**

No prerequisites nor co-requisites. The student is recommended to take the companion laboratory course ZOOL 200L concurrently with ZOOL 200 when it is available.

### **STUDENT LEARNING OUTCOMES**

As a result of taking this course, students can expect to attain the following outcomes:

1. Explain the process and philosophical basis of scientific inquiry.
2. Distinguish between living things and inanimate objects.
3. Demonstrate an understanding of the physical and chemical characteristics of the marine environment, especially those of the Hawaiian marine environment, and how they impact marine life.
4. Communicate knowledge of the diversity of marine organisms, especially Hawaiian species.
5. Exhibit an appreciation of the interaction between structure and function of marine life and how marine organisms are taxonomically related.
6. Illustrate and provide examples of the ecological role of and relationships between marine organisms.

7. Describe the major life zones of the ocean and the adaptations of living things relevant to being a successful species in these zones.
8. Recognize and suggest solutions to the negative impacts of human activities on the marine environment.
9. Research and write, using the language of the field, about a marine biology topic.

## REQUIREMENTS THIS COURSE SATISFIES

- This class may satisfy the Windward Community College Associate in Arts Degree diversification requirement for a Natural Sciences biological science class (DB).
- This class may partially satisfy requirements for the Windward Community College Academic Subject Certificate in Bio-Resources and Technology, Bio-Resources Development and Management Track (Elective Set II: Environment and Ecology).
- This class may partially satisfy requirements for the University of Hawai‘i Marine Option Program Certificate as a marine survey course.

## COURSE TASKS

**SmartBook Learning Assignments** (up to 15; total of 150 points): SmartBook is a digital textbook that actively tailors the content and the embedded quiz questions to individual needs. These adaptive learning assignments will be available via publisher’s website (McGraw-Hill Connect) and usually due weekly, generally on Sundays.

**Homework Assignments** (up to 6, total of up to 100 points): Homework assignments will include various types of questions, including multiple-choice, True/False, fill-in the gaps, short essay, solving interactive diagrams, and similar. These assignments will be available via publisher’s website and due by the stated deadlines.

**Participation in an online discussion** (10 points): We will be using Forum tool in Lualima and/or a web tool, Padlet, for the class discussion. The student will actively engage in the online discussion posted on the course Lualima site. The instructor will initiate these discussions by posting a discussion topic or a question related to a course topic. The students are then required to post thoughtful comments, including substantive responses to the instructor and at least one of their peers. The substantive responses should be meaningful, related to the discussion topic and at least 40 words long. Each discussion topic will be open for limited period (typically one week) and students will only be able to comment/respond during these open periods. Rubrics for scoring student participation in these discussions will be described on the class Lualima site. Students are expected to follow the Netiquette (i.e. Internet Etiquette, available in Lualima’s Resources folder) for discussions and other online interactions with their peers and the instructor.

**General:** Students are expected to complete all tasks by the stated deadlines. No alternative arrangements, such as extending of the deadlines, will be made for undocumented emergencies. If you anticipate missing a deadline due to prior arrangements, please reach out to the instructor immediately.

## ASSESSMENT TASKS AND GRADING

In summary, grading will be based upon:

SmartBook Assignments  
Discussion

## Homework Assignments

- **Assignment scores** will be available via Laulima's Gradebook tool within one week of the assignment due date.
- **Instructor's feedback** will be available via publisher's website. When necessary, assignments will be discussed via Forum tool, as well as via individual and group Zoom meetings.
- There will be **no midterm nor final examinations**.

### Letter grades will be assigned as follows:

<b>A</b>	90% or above in total points.
<b>B</b>	80-89.9% of total points.
<b>C</b>	65-79.9% of total points.
<b>D</b>	55-64.9% of total points.
<b>F</b>	Below 55% of total points or informal or incomplete official withdrawal from course.
<b>I</b>	Incomplete; given at the <b>INSTRUCTOR'S OPTION</b> when student is unable to complete a small part of the course because of circumstances beyond his or her control. It is the <b>STUDENT'S</b> responsibility to make up incomplete work. Failure to satisfactorily make up incomplete work within the appropriate time period will result in a grade change for "I" to the contingency grade identified by the instructor (see catalog).
<b>CR</b>	65% or above in total points; the student must indicate the intent to take the course as <b>CR/NC</b> in writing by the end of the 10th week of classes (see catalog).
<b>NC</b>	Below 65% of total points; this grade only available under the <b>CR/NC</b> option (see above and see catalog).
<b>N</b>	<b>NOT GIVEN EXCEPT UNDER EXTREMELY RARE CIRCUMSTANCES</b> (e.g., documented serious illness or emergency that prevents the student from officially withdrawing from the course); never used as an alternative for an "F" grade.
<b>W</b>	Official withdrawal from the course after the third week and prior to the end of the 10th week of classes (see catalog).

Waiver of minimum requirements for specific grades may be given only in unique situations at the instructor's discretion.

## LEARNING RESOURCES

- Required textbook: Castro, P., and M.E. Huber, 2019. Marine Biology. 11<sup>th</sup> Edition. McGraw-Hill (purchase is automatic, via IDAP program).

- This course is participating in the Bookstore’s Interactive Digital Access Program (IDAP). Through this program, you will access your course material digitally, and it will be available to you by the first day of class. A charge for the digital course material through IDAP will be added to your MyUH account. You have the option to opt-out of receiving your course material through IDAP. By opting-out, you will lose access to the course material and the charge will be refunded on your MyUH account. If you do not opt-out, the charge will stay on your MyUH account. Any unpaid charges on your MyUH account will turn into a hold. Holds on your account will prevent you from accessing various services within the University. You may opt-out by visiting your unique Inclusive Access Student Portal, which can be found in your IDAP welcome email (Subject Line: “IMPORTANT: You have enrolled in an IDAP Course”). For more information regarding IDAP, please contact your campus bookstore.

## ABOUT THE INSTRUCTOR

Pavica Srsen is an oceanography instructor at Windward Community College. She holds a MSc. in Oceanography from School for Ocean and Earth Science and Technology ([SOEST](#)) at UH Mānoa and have various research interests in the field of benthic ecology (i.e. organisms inhabiting the sea floor). At WCC, she teaches environmental science and ocean-related courses and mentors students interested in completing a semester-long research study (usually as a part of SCI 295V course).

## COMMUNICATION EXPECTATIONS

Students are expected to behave politely, respectfully and professionally while communicating with the peers and the instructor via online discussions, email, video conferencing and other forms of interactions. The UH Internet Etiquette (i.e. “Netiquette”) is available for students to review in Lulima’s Resources tool.

The instructor can be reached via:

- Email: [pavica@hawaii.edu](mailto:pavica@hawaii.edu); expect a response within 24 hours Monday-Friday, 48 hours during the weekend and holidays.
- Phone: 808-236-9257, normally Monday-Friday 8:30 am – 4 pm.
- By appointment via Zoom video conference

## COURSE TECHNOLOGY

### Course Technology

- Learning Management System utilized by this course is [Lulima](#), accessible from the [WCC main web site](#), under “Services for Students” tab. To log in, please use your University of Hawaii login information, the same one used to log into your UH email and MyUH/STAR systems. To access Lulima (Sakai) Accessibility information follow this link: [Lulima Accessibility](#).
- In addition to Lulima, we will be using textbook publisher’s website” [McGraw-Hill Connect](#).

### Hardware and Software Expectations:

Students should be comfortable operating a computer browser, such as Mozilla Firefox or Safari, using email, downloading and uploading files. In addition, students should be comfortable using

Adobe Acrobat Reader ([download the free software here](#)) and basics programs within Microsoft Office package (Word, Excel, and PowerPoint). Microsoft Office can be obtained via University of Hawai'i's [Information Technology Services](#).

**It is recommended that you:**

- Use a more recent model desktop or laptop (2014 or later), either Windows or Mac.
- Have access to reliable high-speed Internet connection.
- Use Mozilla Firefox as your web browser, as Lualima is designed to work best with it.  
Note: that we do not recommend using *Internet Explorer* for submitting work or taking tests in Lualima.
  - Depending on your browser settings, PDF files may open in a new window or tab or automatically download to your download folder

**Lualima technical support:**

University of Hawai'i's [Information Technology Services Help Desk](#) is available 24 hours a day, 7 days a week (including holidays) either via email ([help@hawaii.edu](mailto:help@hawaii.edu)) or by phone (808-956-2669). Lualima support can also be accessed directly from any Lualima page by clicking on *Request Assistance* link at the bottom of the page.

**McGraw-Hill Connect (textbook publisher) technical support:**

Student can access the publisher's technical support via the following link: [McGraw-Hill Digital Technical Support](#). In addition, *Connect Student Troubleshooting Guide* is available on Lualima in Resources tool.

**Accessibility information:**

- University of Hawai'i's accessibility policies and services are available at the following link: [Accessibility at UH](#).
- McGraw-Hill (textbook publisher) accessibility information can be accessed at the following link: [McGraw-Hill Accessibility](#).
- To access the accessibility information for each software used in the course, follow the links below:
  - [Macintosh Accessibility Info](#)
  - [Lualima Accessibility Info](#)
  - [Mozilla Firefox Accessibility Info](#)
  - [Microsoft Office Accessibility Info](#)
  - [Adobe Acrobat Reader Accessibility Info](#)

## SUPPORT SERVICES AND RESOURCES FOR STUDENTS

**Tutorial services**

Tutorial services are offered free of charge and open to all WCC students currently enrolled. Tutoring may be long-term, short-term, or single visit, depending upon the needs of the student. To sign up for a tutor, refer to one of the many programs listed below:

- **Tutor.com:** The University of Hawaii Community Colleges offers free online, on-demand tutoring, through [Tutor.com](#).
- **TRiO Student Support Services (TRiO SSS):** The purpose of [TRiO SSS](#) is to provide services (everything from tutoring to filing taxes to financial aid and food) and to foster

an institutional climate supportive of the success of low-income, first-generation, and/or disabled college students.

- **Ho‘onui Ike:** [Ho‘onui Ike](#) is an academic assistance program that utilizes peer-assisted study and coaching sessions.
- **Ka Piko Student Success Services:** [Ka Piko Student Success Services](#) are free to all WCC students and consist of the following resources (please follow the links below for more information):
  - [Math Lab](#)
  - [Writing Center](#)
  - [Speech Lab](#)
  - [Supplemental Instruction](#) (SI)
  - [Peer Mentoring Center](#)

### **Other student services**

- [WCC Library](#), located in Hale La‘akea, provides access to printed and digital books, periodicals, articles and more. In addition, it provides access to video and audio resources, as well as computers, individual and group study areas and rooms.
- [WCC Bookstore](#): textbooks, computers, software, food items and more can be purchased here.
- [Testing Center](#) (located in Hale La‘akea) provides test proctoring services for placement tests, distance education online and written tests and make-up tests for campus courses.
- WCC [Counseling and Advising](#) department, located in Hale ‘Ākoakoa 212, is comprised of college counselors, faculty and support staff who work to support students’ personal and academic growth and development.
- WCC [Mental Health and Wellness](#) provides a range of counseling services and activities on campus to support students’ life goals and academic goals.
- [Disabilities Services](#), located in Hale La‘akea 232, provides information and services to students with disabilities in order to perform functions that might otherwise be difficult or impossible. Testing and academic accommodations can include the following: tape recorded material, note takers, use of adaptive equipment and more.

## **DISABILITIES ACCOMMODATIONS**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Accessibility Counselor to discuss reasonable accommodations that will help you succeed in this class. Jodi Asato can be reached at (808) 235-7472, [jodiaka@hawaii.edu](mailto:jodiaka@hawaii.edu), or you may stop by Hale Kāko‘o 105 for more information.

Jodi A.-K. Asato

Counselor, Disability Student Services Office

Windward Community College

Phone: (808) 235-7472

Email: [jodiaka@hawaii.edu](mailto:jodiaka@hawaii.edu)

Website: [Windward CC Disability Student Services Office](#)

## SEX DISCRIMINATION AND GENDER-BASED VIOLENCE RESOURCES (TITLE IX)

Windward Community College is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking.

If you or someone you know is experiencing any of these, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

Kaahu Alo, Student Life Counselor & Designated Confidential\* Advocate for Students  
 Phone: (808) 235-7354  
 Email: kaahualo@hawaii.edu  
 Office: Hale 'Ākoakoa 232  
*\*confidentiality is limited*

Desrae Kahale, Mental Health Counselor & Confidential Resource  
 Phone: (808) 235-7393  
 Email: dkahale3@hawaii.edu  
 Office: Hale Kako'o 101

Karen Cho, Deputy Title IX Coordinator  
 Phone: (808) 235-7404  
 Email: kcho@hawaii.edu  
 Office: Hale 'Alaka'i 120

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, the University's Title IX resources and the University's Policy, Interim EP 1.204, go to [manoa.hawaii.edu/titleix/](http://manoa.hawaii.edu/titleix/)

## ACADEMIC INTEGRITY

Work submitted by a student must be the student's own work. The work of others should be explicitly marked, such as through use of quotes or summarizing with reference to the original author.

Students can upload papers to <http://www.TurnItIn.com> to have papers checked for authenticity, highlighting where the paper potentially fails to appropriately reference sources.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s):

Students will receive a failing grade for plagiarized assignments.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

For more information, students are encourage to review [UH Student Conduct Code](#).

## **ALTERNATE CONTACT INFORMATION**

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

- Location: Alakai 121
- Phone: 808-235-7422
- Email: [wccaa@hawaii.edu](mailto:wccaa@hawaii.edu)

## **APPENDIX**

### **Student Responsibilities and Expectations**

The student is expected to read all assigned reading materials, participate in all course activities, and complete all assignments on time.

Any changes in the course schedule, such as deadlines, etc., will be announced ahead of time via Laulima and UH email. It is the student's responsibility to be informed of these changes.

It is the student's responsibility to be informed about deadlines critical to making registration changes (e.g., last day of erase period and last day for making an official withdrawal).

Students should expect a level of difficulty comparable to other 200-level science classes intended for non-science majors. When difficult concepts and detailed information are presented, it is the student's responsibility to take the appropriate steps to learn and understand these concepts and information.

Science courses at WCC generally require two to three hours of independent private study time for each hour in class. However, because of the nature of the material presented in this course, more study time may be required (depends upon the student's science background). It is the student's responsibility to allocate the appropriate time needed for study in an environment conducive to quality study. The student must budget time efficiently and be realistic about all personal and professional commitments that consume time.

### **How to Succeed in This Class**

Understanding any science involves understanding many difficult concepts and vocabulary, not just knowing facts. The student should know that the details to these concepts are important. In addition, the student will be introduced to hundreds of new words. In some cases, words that are familiar in a context other than marine science will be introduced in the context of this course.

The student will need to understand and use these terms in a marine science context.

Students are expected to participate in all course activities and complete all course assignments on time.

The student will not succeed in this class without reading all assigned readings and taking careful notes.

The student should ask the instructor to explain the things that the student does not understand.