



UNIVERSITY of HAWAII
WINDWARD COMMUNITY COLLEGE

Ke Kulanui Kaiāulu o ke Ko'olau

HWST 155 Nā Limu Hawai'i: Hawaiian Seaweeds and their Uses

Fall 2024

3 Credits | CRN 64432 | Hale A'o 102

Windward Community College Mission Statement

'O keia ka wā kūpono e ho'onui ai ka 'ike me ka ho'omaopopo i kō Hawai'i mau ho'oilina waiwai. Aia nō ho'i ma ke Kulanui Kaiāulu o ke Ko'olau nā papahana hou o nā 'ike 'akeakamai a me nā hana no'eau. Me ke kuleana ko'iko'i e ho'ohiki ke Kulanui e kāko'o a e ho'okumu i ala e hiki kē kōkua i ka ho'onui 'ike a nā kānaka maoli. Na mākou nō e ho'olako, kāko'o a paipai i nā Ko'olau a kō O'ahu a'e me nā hana no'eau ākea, ka ho'ona'auao 'oihana a me ka ho'onui 'ike ma ke kaiāulu — hō'a'ano a e ho'oulu i nā haumāna i ka po'okela.

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 O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence

Instructor Information

How to Contact Your Instructor

Brianna Ornelas

Office: Hale A'o 202 [Phone # will be provided later]

Office Hours: by appointment, just email me and we can work out a time to meet!

Email: bornelas@hawaii.edu

About

Aloha kākou! Welcome to HWST 155. I am excited to be your instructor this semester for this newly developed course. My classroom is one built on respect and reciprocity; all are welcome here. I expect students to complete their own work and respect all students' insights and viewpoints. My overall goal is to get you guys to like limu even just a little bit and for you to succeed in this course. Please let me know as soon as possible if you are having difficulties or challenges with the course and/or with life in general. I am willing to work with each student depending on the circumstances.

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: Alaka'i 121
- Phone: (808) 235-7422

Course Information

Catalog Description

This course is an introduction to Hawaiian Limu biology, ecology, and diversity. Students will learn about the historical, current, and potential uses of Limu and choose a species to research. In this course, students are introduced to Limu groups (red, green and brown) and sustainable cultivation. Students will learn about the cultural significance and history of Limu in Hawai'i.

Activities Required at Scheduled Times Other than Class Times

A portion of this class requires you to create an algal herbarium. While we will have field trips to accommodate limu (algae) collections there may be times where you will have to go to the beach yourself and collect other limu.

Student Learning Outcomes

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

1. Identify and describe the diversity of Hawaiian limu.
2. Describe the biology and ecology of Hawaiian limu.
3. Describe the historical and current uses of Hawaiian limu.
4. Apply knowledge to potential limu cultivation and conservation.

Required Materials

This book is not a required purchase but could be helpful for learning the material in this class.

*Huisman, J. M., I. A. Abbott & C. M. Smith. 2007. Hawaiian Reef Plants.
University of Hawai'i Sea Grant 2nd edition.*

The UH SeaGrant Publications Office has offered to sell books to HWST 155 students at a discounted price. Arrangements will be made to sell books during the second week of class.

Course Format

This course is offered in a 16-week time frame. Please note that this is not a self-paced course, the class schedule provided will be followed. In addition, this is a face-to-face course, attendance is expected. It is your responsibility to make prior arrangements with Bri, if you know that you will miss class.

Course Technology

Laulima Learning Management System

- We will use Laulima for most class activities: Course lecture materials, handouts and papers will be posted as pdfs on the course Laulima site.

Personal Technology

Students are expected to come to class prepared to engage fully in the learning process, which includes refraining from using phones or other personal technology. The use of such devices can be distracting and detract from the educational experience for both you and your peers. If you use writing tablets or laptops for note taking, please discuss with Bri first.

Participation Verification

Campuses are required by federal regulations to verify the participation of students in their classes. In accordance with [Executive Policy 7.209](#), all students in the University of Hawai'i system are required to establish "participation" to ensure that they are not dropped from their class(es). Students who fail to participate by the late registration period for a class will be administratively dropped from that class. Students may also be dropped from dependent prerequisite and/or corequisite classes if both courses do not establish participation.

Grading Policy

Herbaria: 24% (40 points x 3 herbaria) = 120 points)

Exams: 30% (50 points x 3 exams = 150 points)

Weekly Assignments: 16% (20 points x 4 assignments = 80 points)

Research paper: 30% (150 points)

Total points for course = 500

Your grade will be based on your participation and performance in completing the above tasks. Corresponding letter grades are as follows:

A = 100 – 90

B = 89 – 80

C = 79 – 70

D = 69 – 60

F = 59 and below

Please refer to the WCC College Catalog for audit, withdrawal, and incomplete options.

Late policy

Late assignments will result in a 2 point deduction per day that it is late.

Please email Bri if you think you will not be able to turn an assignment in on time.

Assessment Tasks and Grading

Herbaria: You will be guided in the processes of identifying key features of our algae, making your own personal herbarium of green, red and brown algae that you will identify via use of dichotomous keys and sight. Details of which taxa to collect will be provided to you on Lulima. Dates when the herbaria are due are included below in Table 1.

Weekly Assignments: Throughout the semester you may have a few assignments to complete that support the topics discussed that week. They will be due the following class meeting.

Research Paper: Throughout the semester you will conduct an oral history project concerning limu and community. You will be taught the proper protocol to conduct an oral history during lecture. A corresponding research paper will summarize your findings. This assignment is equivalent to your final exam.

Semester Schedule

Date	Topics	Assignments
Week 1 8/26 -8/30	Syllabus, Multiple ways of knowing	Class questionnaire
Week 2 9/2-9/6	HOLIDAY (no class)	La'au Hawai'i reading
Week 3 9/9-9/13	What is limu? And what about cyanobacteria?	Limu Eater reading
Week 4 9/16-9/20	Connectivity of ecosystems, invasive limu	
Week 5	Early and middle green limu	

Date	Topics	Assignments
9/23-9/27		
Week 6 9/30-10/4	Limu collecting field trip (location TBD)	
Week 7 10/7-10/11	End of greens, ethnobotany research	Oral history videos & reflection
Week 8 10/14-10/18	Green Limu Exam	Green Herbarium Due
Week 9 10/21-10/25	Early and Middle red limu	
Week 10 10/28-11/1	End of reds , cooking with limu	
Week 11 11/4-11/8	Limu collecting field trip (location TBD)	
Week 12 11/11-11/15	HOLIDAY (no class)	Red Limu Exam
Week 13 11/18-11/22	Early brown limu	Red Herbarium Due
Week 14	Limu collecting field trip (location TBD)	

Date	Topics	Assignments
11/25-11/29		
Week 15 12/2-12/6	End of the browns	
Week 16 12/9-12/12	Brown Limu exam, reflections	Brown Herbarium due
Finals 12/16/24	Ethnobotany research paper due on 12/16 by 11:55 pm	

*Bold text denotes a Holiday

Other important dates

9/03/24 - Last day to register, Last day to receive 100% tuition refund

9/17/24 - Last day to receive 50% tuition refund, Last day to drop (No "W" on transcript)

11/04/24 - Last day to withdraw from class ("W" on transcript)

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 the use of quotes or summarizing with reference to the original author.

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.

[Windward CC Student Conduct Information](#)

[UH System Student Conduct Policy EO 7.208](#)

In this course, students must be the primary and majority authors of text, code, analysis, images, graphics, and all course work products and assignments. Students are ONLY permitted to use AI to

generate outlines or polish text they have drafted (ex. Rewording a sentence). Any other use of AI applications is considered academic dishonesty.

How to Seek Academic or Technical Support

Academic Support

- [Windward Community College Library](#)
- [Library eResources](#)
- [Ka Piko Writing Lab](#)
- [Ka Piko Speech Lab](#)
- [Ka Piko Math Lab](#)
- [Evening and Online Learning at Windward Community College](#)
- [STAR Balance](#)

Technical Support

- [UH ITS Help Desk](#) – email help@hawaii.edu or call 956-8883 (or 1-800-558-2669) for Lulima and most technology support. Available 24 hours a day, 7 days a week, including holidays.
- Student Tech Support - email winhelp@hawaii.edu, call 808-235-7437, or stop by in person at Hale La'akea 228. Available Monday–Friday from 8:00 am–4:00 pm.
- Lulima – Click on the [Request Assistance](#) link at the bottom of any Lulima Page to fill out and submit a question and get your answer via email.
- [Information Security for Students](#)

College Policies & Support Services

Disabilities Accommodations Statement

The Windward Community College's Disability Student Services Office (WCC-DSSO) is committed to providing equal access to qualified students with disabilities.

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to participate fully in this class, you are encouraged to contact the Disability Specialist Counselor, Roy Inouye, to discuss reasonable accommodations that will help you succeed in this class. The Disabilities Counselor can be reached at 808-235-7448, wccdsso@hawaii.edu, or stop by the office (Hale Kako'o 105) for more information.

Basic Needs

Basic needs include food and housing, childcare, mental health, financial resources, and transportation. Student basic needs security is critical for ensuring strong academic performance,

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persistence and graduation, and overall student well-being. If you or someone you know is experiencing basic needs insecurity, please see the [UH System Basic Needs website](#).

Mental Health Counseling

Mental Health and Wellness at Windward Community College counseling services and activities on campus to support students' life goals as well as their academic goals. Information about services can be found at the [WCC Mental Health & Wellness website](#).

UH Alerts

The UH Alert emergency notification system alerts the university community in the event of a natural, health or civil emergency. The information you provide will only be used in the event of an emergency that impacts the health and safety of the UH community or the closure of whole campuses. It will not be shared with others or used for routine UH communications or announcements. To sign up, visit [UH Alerts website](#) for more information.

Financial Aid

If you are receiving financial aid and are contemplating not completing the course, BEFORE you withdraw, it is highly recommended that you contact the Financial Aid Office at 808-934-2712 or email them at wccfao@hawaii.edu to discuss the impact this decision may have on your financial aid eligibility.

Student Conduct Code

Windward Community College follows the University of Hawai'i Code of Student Conduct which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Code of Student Conduct since, upon enrollment at Windward Community College, the student has placed herself/himself under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Office of the Vice Chancellor for Student Affairs. Copies of the Student Conduct Code are available at the Office of the Vice Chancellor for Student Affairs or [online](#).

Title IX - Sex Discrimination And Gender-Based Violence Resources

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:

Leslie Cabingabang, UH System Confidential Advocate
Phone/Text: (808) 348-0432 or (808) 341-4952
Email: advocate@hawaii.edu
Office: Hale Kāko'o 107 (Wednesdays)

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Mykie E. Menor Ozoa-Aglugub, J.D., Title IX Coordinator
Phone: (808) 235-7468
Email: mozoa@hawaii.edu
Office: Hale Kākoʻo 109

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

Karen Cho, Deputy Title IX Coordinator
Phone: (808) 235-7404
Email: kcho@hawaii.edu
Office: Hale ʻAlakaʻi 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 <https://www.hawaii.edu/titleix/>