IS 201 Ahupuaʻa
3 credits, CRN: 64409
R 1:00pm – 3:30pm

INSTRUCTOR: Kalawaiʻa Moore
OFFICE: Hale Aʻo 201
OFFICE HOURS: T 1pm, or by appointment
TELEPHONE: 808-235-7388
EMAIL: peterm@hawaii.edu
EFFECTIVE DATE: Fall 2018

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 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

Study the traditional Hawaiian approaches to natural resources development, utilization, exploitation, and management. The Ahupua‘a as the traditional Hawaiian unit of land and sea subdivision, beginning at the upland forests, stretching across lower elevations, past the shoreline to the edge of the reef, will be evaluated as a microcosm of an integrated ecosystem and as a model for natural resource management and sustainability.

Recommended Preparation: BIOL 101 or BIOL 124 or similar preparation

STUDENT LEARNING OUTCOMES

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

The student learning outcomes for the course are:
1. Describe how Hawaii’s unique geological formation affects its sustainable natural resources.
2. Describe how the ancient migration begins to affect the management of its natural resources and the socio-political fabric of the “new land.”
3. Describe the agri-spiritual relationship between the plant and the mahi‘ai (farmer) and the fish and the lawai‘a (fisherman).
4. Describe the ancient and present management value of water.
5. Assist in the construction/maintenance of a lo‘i kalo (taro patch) and/or a loko i‘a (fishpond).
6. Describe and discuss the current resource management practices which augment or negate ancient practices.

**COURSE CONTENT**

<table>
<thead>
<tr>
<th>Traditional Hawaiian Concepts</th>
<th>Traditionally Academic Science Concepts</th>
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<tbody>
<tr>
<td>• ‘Āina Kumu Wai (Watershed)</td>
<td>1. Aquaculture, Aquaponics</td>
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<tr>
<td>• Kānāwai (laws, rights of water)</td>
<td>2. Silviculture</td>
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<td>• Kahawai (water course)</td>
<td>3. Alpine, Sub-Alpine, Montane</td>
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<tr>
<td>• Lo‘i (Pond Field)</td>
<td>4. Mésic Forests</td>
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<tr>
<td>• Loko I‘a (Fishpond)</td>
<td>5. Shoreline Ecosystems: Littoral Fringes, Calcareous Shorelines, Fringing Reefs</td>
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<tr>
<td>• Nā Mahele of ka ‘āina</td>
<td>6. EDNA</td>
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<tr>
<td>• Nā Mahele o ke kai</td>
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**ASSESSMENT TASKS AND GRADING**

**Attendance**: Students are required to attend all classes. Attendance will be taken at each class. A doctor’s note or some other form of documentation must substantiate classes missed for a valid reason.

**Laulima**: Laulima means “many hands,” and refers to the Hawaiian concept of pitching in hands to help get work done. The more hands the better and faster things come to completion, and the greater we grow as a community. Students will be graded on their class participation; meaning you should be participating in the activities we will be doing at each site visit and at our WCC Māla. If you don’t know what to do at any point on a laulima ask the Kumu or an alaka‘i.

Ma ka hana, ka ‘ike – through doing, one learns

**Nā Hōʻike**: There will be a quiz every four weeks in class, four quizzes total.

Students will be graded as follows:

- Attendance and Laulima: 100pts
- Assignments, (12): 120pts
- Nā Hōʻike: 320pts
Grade scales:

A = 90 – 100% of total points  
B = 80 – 89% of total points  
C = 70 – 79% of total points  
D = 60 – 69% of total points  
F = less than 60% of total points

I (incomplete), is given at the INSTRUCTOR’S DISCRETION if the student is unable to complete a small part of the course because of circumstances beyond your control. It is THE STUDENT’S responsibility to make up incomplete work with a minimum level (or better) of achievement. Failure to satisfactorily make up incomplete work within the appropriate time period will result in a grade change from “I” to the contingency grade identified by the instructor (see WCC Catalog).

CR (credit), 70% or above in total points. The student must indicate an intent to take the course as CR/N in writing by the end of the 10th week of classes (see WCC Catalog).

NC (no credit), below 70% or above in total points (see catalog). The NC grade will not be used as an alternative grade for an “F”

W (withdrawal), Official withdrawal is determined by the date listed in the Schedule of Classes.

**LEARNING RESOURCES**

* All readings will be provided by pdf through our class Laulima site.

**Semester Schedule  **Subject to change

**Week 1** - Intro to Ahupuaa Class, syllabus,

Ahupua’a Site: Māla a Kahoe

Aug. 30 - Māla a Kahoe

**Week 2** – Hawaiian Concepts of Land, Ocean, and Ahupua’a

Reading:
1) Kelly, Marion, “The Dynamics of Production Intensification in Pre Contact Hawai‘i”
3) Kamakau, Samuel Manaiakalani, Land Divisions, Mountains, Mountain Zones, Hills and Cliffs, Roadways, the Waters, The Seas, The Waves, The Tides, pp. 6 – 13


Sept. 6 - Kākoʻo ʻOiwi, Mahuahua ʻAi o Hoi

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**Week 3** – Wai, water cycle, Wao Akua, Rainforest Preserve

**Reading:** Miike, Lawrence, “Aquifers, Streams, and Things,” in *Water and The Law in Hawai‘i*

Sept. 13 – **Waihe‘e tunnel**

**Week 4** – Hawaiian Watersheds, Cultural Knowledge, and Restoration/Maintenance

**Video:** DLNR & YOU Sustaining Healthy Forested Watersheds for Hawaii's Communities
[https://www.youtube.com/watch?v=zrl2Lhm8TU](https://www.youtube.com/watch?v=zrl2Lhm8TU)

Voices for the Watershed - Trae Menard on how native forests of Hawai‘i capture water
[https://www.youtube.com/watch?v=xVHaBb5yYsU](https://www.youtube.com/watch?v=xVHaBb5yYsU)

Puu Kukui with Sam Gon
[https://www.youtube.com/watch?v=xdAxQdYGzM](https://www.youtube.com/watch?v=xdAxQdYGzM)

Sept. 20 - **Ala Mahamoe watershed work**

**Week 5** – Loko I‘a, The Hawaiian Fishpond

**Reading:** Loko I‘a: A Manual on Hawaiian Fishpond Restoration and Management by Graydon “Buddy” Keala - selections

Video:

Sept 27 - **Waikalua Loko I‘a**

**Week 6** - Loko I‘a, The Hawaiian Fishpond

**Reading:** Loko I‘a: A Manual on Hawaiian Fishpond Restoration and Management by Graydon “Buddy” Keala – selections

Oct. 4 - **Paepae o He‘eia**

**Week 7** – Hawaiian Watersheds, Cultural Knowledge, and Restoration/Maintenance

Oct. 11 - **Hui O Koʻolaupoko - Kaha Garden**

**Week 8** – Loko I‘a, The Hawaiian Fishpond

**Reading:** Loko I‘a: A Manual on Hawaiian Fishpond Restoration and Management by Graydon “Buddy” Keala - selections

Oct. 18 - **Waikalua Loko I‘a**

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Week 9 - Loko I‘a, The Hawaiian Fishpond

**Reading:** Indigenous management models and protection of the ahupua 'a by Luciano Minerbi

Oct. 25 - Paepae o Heʻeia

Week 10 – Loʻi, The Hawaiian Pondfied

**Reading:** Handy, Handy, Pukuʻi, “Land, Water,” In Native Planters in Old Hawaii: Their Life, Lore, and Environment, 1991

Nov. 1 - Kākoʻo ʻOiwi

Week 11 – Hawaiian Ocean Resources


Lānaʻi Limu Restoration Project: [http://kuahawaii.org/lana%CA%BBi-limu-restoration-project/](http://kuahawaii.org/lana%CA%BBi-limu-restoration-project/)

Nov. 8 - Waimanalo Limu Hui

Week 12 - Hawaiian Watersheds, Cultural Knowledge, and Restoration/Maintenance

Nov. 15 – Hui o Koʻolaupoko - Heʻeia

Week 13 – Lā Hoʻomaikaʻi

Nov. 22 - Lā Hoʻomaikaʻi

Week 14 – Hawaiian Ahupuaʻa and Forest Restoration

Huakaʻi – Maui – Hāna, and Either Auwahi, or Puʻu Kukui


**Video:** TEDxMaui - Dr. Arthur Medeiros - Auwahi: Hope on a Hawaiian Volcano [https://www.youtube.com/watch?v=5Qi4_dwx5Qo](https://www.youtube.com/watch?v=5Qi4_dwx5Qo)

Nov. 29 - Hawaiian dryland forest – Auwahi, Maui, Puʻukukui, Hāna
Week 15 – Hawaiian Ahupua’a and Forest Restoration


Dec. 6 - Ho‘oulu ʻĀina

Week 16 - Final Exam Week

Dec. 13 Final Hō‘ike

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 Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Ākoakoa 213 for more information.

TITLE IX
Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/.

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, Windward CC has resources to support you. To speak with someone confidentially, contact Karla Silva-Park, Mental Health Counselor, at 808-235-7468 or karlas@hawaii.edu or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator at 808-235-7393 or wcctix@hawaii.edu.

ACADEMIC INTEGRITY (This section is optional)
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.

Windward Community College is an equal opportunity, affirmative action institution.
All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

**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