

**HWST 196**  
**Special Topics in Polynesian Voyaging: Malama Honua**  
3 credits  
Summer2018  
**MA KA HANA KA 'IKE**  
**'A'OLE PAU KA 'IKE I KA HALAU HO'OKAHI**

**INSTRUCTOR:** R. Kamo'a'e Walk  
**OFFICE:** Various  
**OFFICE HOURS:** MTWRF 8:30am-12:30pm  
**EFFECTIVE DATE:** Summer 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 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.

### CATALOG DESCRIPTION

An introduction to Hawaiian views of astronomy and weather, with a focus on celestial bodies and how they are used as a basic wayfinding tool..

### Activities Required at Scheduled Times Other Than Class Times

None

### STUDENT LEARNING OUTCOMES

#### Student Learning Outcomes

Upon successful completion of this course, you will be able to:

- Demonstrate knowledge of traditional Hawaiian and Polynesian concepts of the cosmos, space, direction and time and explain how these concepts compare with Western concepts.
- Identify and name the component parts of the star compass used by Polynesian Voyaging Society (PVS) trained navigators.
- Identify and name (both Hawaiian and non-Hawaiian names) the four star lines used by contemporary Hawaiian wayfinders.
- Identify and name the stars and constellations that make up the individual star lines.
- Identify and explain the declination of each star and how they relate to significant places in broader Polynesia.
- Critically examine and explain the differences between the Micronesian star compass used by

Mau Piailug and the contemporary wayfinding star compass.

- Demonstrate knowledge of the stories, both traditional and contemporary, that are attached to the stars, constellations and star lines used by wayfinding navigators.
- Identify and explain significance of celestial bodies and atmospheric and oceanic features and conditions used in navigation and weather prediction.
- Demonstrate a basic knowledge of non-instrument and instrument-aided navigation and weather.
- Demonstrate a basic knowledge of the richness of Hawaiian language in describing geography and navigation, and demonstrate knowledge of how the terminology reflects a Hawaiian worldview.

## COURSE TASKS

### COURSE REQUIREMENTS AND TASKS:

#### Assigned Readings:

Reading assignments will be primarily from the Polynesian Voyaging Society Crew Manual and other sources, available through Laulima ([laulima.hawaii.edu/portal](http://laulima.hawaii.edu/portal)) and organized by unit under the "Resources" tab. Please be sure to read the assignment by the week listed on the course schedule. Additional readings will be provided as needed.

#### Project:

Students (may form teams of two to four) will demonstrate knowledge of the material covered in this course by creating a learning tool of your choice. This could be through story-telling, song, game, Powerpoint presentation, theater, visual arts, book, or another method of your choice. Projects must be approved by the kumu beforehand. This project will be discussed in class prior to beginning. The class as a group will determine criteria for how this portion of the course will be graded.

#### Examinations:

There will be four exams throughout the semester, including the final exam. Exams will be based primarily on your command of the terminology and concepts introduced in this course. Lectures, readings, and videos will contain information and terms that you will be required to know. Some of them will be in Hawaiian or other Oceanic languages. Exams will consist of fill in the blank, multiple choice, matching, short answer and star diagrams. Consistent attendance, reading and note-taking is advised. You may only take exams during your regularly scheduled class time, unless you receive prior approval from the kumu.

#### Extra Credit:

There will be opportunities for extra credit that will require attendance at a pre-approved event (ie. Mālama 'ina Days) relating to the topic of Hawaiian Studies and a reaction paper on that event to be turned in within one week of the event. Up to two extra credit papers may be turned in, worth up to 15 points each. Announcements of events will be made in class and posted on Laulima. Students are encouraged to keep a log of star and local weather observations, including observations of clouds, winds, ocean conditions, colors in the sky at sunrise and sunset, position of the setting sun, etc. This log may be turned in periodically for extra credit, worth up to 30 points total.

## ASSESSMENT TASKS AND GRADING

4 Exams	250 points
Project	60 points
Assignments	90 points
Total	400 points

A= 360-400

B= 320-359  
 C= 280-319  
 D= 240-279  
 F= Below 240

## LEARNING RESOURCES

Bryan, E.H., Jr. 1955. Stars Over Hawai'i. (Revisions and Additions by Richard A. Crowe, PhD. in 2002). Hilo: Petroglyph Press

Johnson, Rubellite, John Mahelona and Clive Ruggles. 2015 Revised edition. Na Inoa Hoku. West Sussex: Ocarnia Books Ltd.

Kamakau, Samuel Manaiakalani. 1976. Nā Hana a ka Po'e Kahiko. (The Works of the People of Old). Honolulu: Bishop Museum Press.

Kyselka, Will. 1987. An Ocean in Mind. Honolulu: University of Hawai'i Press.

Malo, David. 1959. Hawaiian Antiquities. (Translated by Dr. Nathaniel B. Emerson in 1898). Honolulu: Bishop Museum Press.

Rhoads, Samuel E. 1993. The Sky Tonight, A Guided Tour of the Stars Over Hawai'i. Hong Kong: South China Printing Company.

On the web: [pvs.kcc.hawaii.edu](http://pvs.kcc.hawaii.edu) and [hokulea.com](http://hokulea.com)

## Additional Information

### COURSE EXPECTATIONS:

Attendance: Attendance will be taken daily. Four lates will be counted as one absence. You have up to 4 absences without penalty. For each missed day after that, 10 points will be deducted from the final point total. If a class is missed it is the students responsibility to get lecture notes and assignments.

Make up tests will only be allowed if student contacts instructor before the test with a valid reason for missing test.

Respect the class as a learning environment by:

- Positive engagement in class activity.
- Use of appropriate language.
- Be attentive to the mode of the class. Sometimes we will be in large group discussion, small group discussion, and individual work. Know the difference between each.
- In large group discussion there should be one person talking at a time.
- Keep focus on learning and don't impede other's ability to focus on learning

COURSE SCHEDULE (Subject to Change)

**Unit 1: Ka Lani Pa'a: Celestial Sphere**

Course introduction; Hōkūle'a and the modern revival of voyaging; Overview of wayfinding; Hawaiian star compass; Reading: A Hawaiian Compass, Star Compass Degrees  
 Papa Mau Piailug's star compass; Ka lani pa'a; Hawaiian concept of the universe Film: Papa Mau; Reading: A Micronesian Star Compass, Celestial Sphere – Ka Lani Pa'a, Star Map of Celestial Sphere; Malo – Directions & Space  
 Movement of earth and moon relative to sun, Hawaiian calendar; Reading: Kamakau – Seasons, Sun Mechanics, Moon Mechanics, Nā Mahina  
 Island groups in Oceania; Zenith stars - declination and latitude; Reading: Art of Wayfinding, Map of the Pacific  
 Review for midterm; Reading: Study Guide #1

**MIDTERM EXAM 1 – Material covered in Unit 1**

**Unit 2: Iwikuamo'o**

Introduction to star lines and meridian pointers; Star Line: Ka Iwikuamo'o – Hawaiian and Western names of stars and constellations, associated stories, north & south pointers, star declinations; Using the stars to tell time; Reading: Iwikuamo'o Rise & Set, Star Map Iwikuamo'o, Iwikuamo'o Names, Hale Hōkū Iwikuamo'o, Iwikuamo'o blank, Memorizing the Star Map, Meridian Pointers, Telling Time

**Unit 3: Manaiakalani**

Star Line: Manaiakalani – Hawaiian and Western names of stars and constellations, associated stories, north & south pointers, star declinations; Reading: Manaiakalani Rise & Set, Star Map Manaiakalani, Manaiakalani Names, Hale Hōkū Manaiakalani, Memorizing the Star Map, Meridian Pointers  
 Review for midterm; Reading: Study Guide #2

**MIDTERM EXAM 2 – Material covered in Units 2 & 3**

**Unit 4: Ka Lupe o Kawelo**

Star Line: Ka Lupe o Kawelo – Hawaiian and Western names of stars and constellations, associated stories, north & south pointers, star declinations; Reading: Ka Lupe o Kawelo Rise & Set, Star Map Ka Lupe, Ka Lupe Names, Hale Hōkū Ka Lupe, Ka Lupe blank, Memorizing the Star Map, Meridian Pointers  
 Wayfinding with stars and swells; Clouds and predicting weather; Reading: Steering by Stars and Sea, Using Stars for Wayfinding  
 Review for midterm; Reading: Study Guide #3

**MIDTERM EXAM 3 – Material covered in Unit 4**

**Unit 5: Ke Kā o Makali'i**

Star Line: Ke Kā o Makali'i – Hawaiian and Western names of stars and constellations, associated stories, north & south pointers, star declinations; Reading: Ke Kā o Makali'i Rise & Set, Star Map Ke Kā o Makali'i, Ke Kā o Makali'i Names, Hale Hōkū Makali'i, Memorizing the Star Map, Meridian Pointers  
 Weather in Hawai'i and Oceania – observations and patterns; Using meridian pointer stars for estimating latitude; Reading: Estimating Latitude with Stars  
 Estimating latitude with stars (continued); Project presentations  
 Project presentations, review for final exam; Reading: Study Guide #4

**FINAL EXAM: Material covered in Unit 5**