IS 260 A and B: Polynesian Voyaging & Stewardship  
3 credits  
MW 3:00-4:15  
MA KA HANA KA ‘IKE  
‘A’OLE PAU KA ‘IKE I KA HALAU HO’OKAH!

INSTRUCTOR: Keliko Hoe  
OFFICE: Hale A’o 204  
OFFICE HOURS: MWF 8:30-9:30  TTH 9:30-10:30  
TELEPHONE: 236-9124  e-mail- kelikoka@hawaii.edu  
EFFECTIVE DATE: Spring/2009

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

CATALOG DESCRIPTION

This course focuses on the fundamentals of voyaging and the impact of human activity on the environment of Hawai‘i, with emphasis on Kāne‘ohe Bay and the Windward coast. An interdisciplinary approach is used blending the traditions of Polynesian culture, history, and skills with modern science and technology. Topics covered include Hawaiian studies, astronomy, geology, oceanography, meteorology, marine biology, ethnobotany and archaeology of Polynesia and Hawai‘i.

Activities Required at Scheduled Times Other Than Class Times

STUDENT LEARNING OUTCOMES

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

1. Identify the remaining two of the four recognized star lines used for navigation
2. Contrast and compare wayfinding, celestial navigation and GPS
3. Discuss and explain the lunar phases and the causes and effects of tides
4. Explain and apply the physics of sailing, as related to Bernoulli’s principle and Newtonian physics
5. Discuss the settlement of Hawaiʻi with emphasis on the Kane‘ohe Bay area, including place names and voyaging chiefs
6. Apply the basic concepts in oceanography and meteorology, especially of the Pacific area
7. Apply basic sailing and navigational skills to prepare and carry out a sail plan
COURSE TASKS

COURSE REQUIREMENTS AND TASKS:
1. Assigned readings.
   - There will be weekly reading assignments. Most will be accessed on Laulima.
   Students are expected to read and take notes on readings before class and be able to ask and answer questions relating to the readings.
2. Quizzes and/or projects. There will be 6 Quizzes or projects during the course worth 20 points each.
3. Final Exam 120 points

ASSESSMENT TASKS AND GRADING

<table>
<thead>
<tr>
<th>Quizzes or projects</th>
<th>120</th>
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<tbody>
<tr>
<td>Final Exam</td>
<td>120</td>
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<td>Total</td>
<td>240</td>
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A=216-240
B=192-215
C=168-191
D=144-167
F=143 and below

20 points of possible extra credit

LEARNING RESOURCES

Handouts in class and on Laulima

Additional Information

COURSE EXPECTATIONS:
Attendance: Attendance will be taken daily. If you are over 15 minutes late, you will be considered absent. You have up to 4 missed days without penalty. For each missed day after that 15 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.
Schedule of Topics

Hawaiian Studies
- Migration & Voyaging to Hawaii/Kane'ohe
- Hawaiian & Polynesian Canoe Protocol
- Fire Making
- Sennit Making

Astronomy
- lunar phases & eclipses
- nature of tides
- predicting tides & reading tide charts
- Ka Iwikuamoo & Ke Ka o Makal'i
- constellation ID

Geology
- nearshore oceanography (beaches & coasts)
- Hawaiian fishponds

Hawaiian Studies
- Polynesian Conservation & Sustainability
- Nature Conservancy: Sustainability

Astronomy
- physics of sailing
- astronomy of Polynesian navigation
- constellation ID
- basics of celestial navigation

Geology
- meteorology
- geologic evolution of Hawaiian Islands
- Ground Water

Final Exam