Honolulu Community College
General Education – DIVERSIFICATION DESIGNATION
Certification and Recertification
Application Form
Spring 2012

APPLICANT: Kaʻiulani Murphy

E-MAIL: kmurphy@hawaii.edu

COURSE ALPHA and NUMBER: HWST 281

COURSE TITLE: Hoʻokele I: Hawaiian Navigation: Astronomy and Weather

ESTIMATED NUMBER OF SECTIONS:
Fall: 1
Spring:

APPLICATION IS FOR:
☐ New Course ☐ Modified Course ☐ Existing Course ☐ Re-designation
☐ Certification X Re-Certification. Date of last certification: 2008

DIVERSIFICATION AREA DESIGNATION SOUGHT:
☐ DA (Arts) ☐ DB (Biological Sciences) ☐ DH (Humanities) ☐ DL (Literature and Language) X DP (Physical Sciences) ☐ DS (Social Sciences) ☐ DY (Laboratory)

What percentage of the CONTENT of this course focuses on this diversification area? 75%

What percentage of CLASS MEETINGS focuses on this diversification area? 75%
Guidelines and explanatory notes for the following questions are located at the end of this document.

1. **Hallmarks and SLOs.** Please explain how course-specific SLOs align with the diversification area’s hallmarks.

   Students will be taught to utilize traditional and western methodologies of instrument and non-instrument navigation in the context of Polynesian history and culture, and the revival of voyaging in modern times. Students will also demonstrate an understanding of both Hawaiian and Western terminology as it relates to voyaging. The majority of the course content will consist of scientific knowledge (astronomy, meteorology, oceanography, geography, ethnobotany, and physics) and the variety of processes used (star, moon, tidal, wind, and current observations) in non-instrument and instrument navigation.

   Course materials will also enable the student to demonstrate the usage of inquiry that involves Polynesian and Micronesian navigational methods and how these methods compare with Western concepts.

   The following SLO’s relate to the DP hallmark #1: At least two-thirds of the course uses the terminology of the physical sciences:
   - Demonstrate knowledge of traditional Hawaiian concepts of the cosmos, space, direction and time and how these concepts compare with Western concepts
   - Identify and name the components of the star compass used by Polynesian Voyaging Society trained navigators
   - Identify and name (both Hawaiian and non-Hawaiian names) the four star lines used by contemporary wayfinders and the stars and constellations that make up those star lines
   - Identify the declination of each star and how they relate to significant places in broader Polynesia

   The following SLO’s relate to the DP hallmark #2: At least two-thirds of the course involves knowledge and theories relating to processes in the physical sciences
   - Demonstrate knowledge of the stories, both traditional and contemporary, that are attached to the stars, constellations and star lines used by wayfinding navigators
   - 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 world view

   The following SLO’s relate to the DP hallmark #3: At least two-thirds of the course demonstrates inquiry that involves observation/experiment and reasoning and mathematics
   - Critically examine the differences between the Micronesian star compass used by Mau Piaihug and the contemporary wayfinding star compass
   - 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

   Students will meet these outcomes through various in-class and outdoor activities, which include: class discussion, lecture, project-based learning such as weather observations (stargazing, moon phases, tide, wind), individual/group presentations, tests, quizzes and written reports. To further assist the student in achieving these SLO’s, the instructor will provide feedback on all graded and non-graded assignments, tests and quizzes.

2. **Assessment strategies.** Explain assessment strategies you have used (or plan to use) to measure the degree to which students exit the course with the course-specific SLOs. If there are multiple sections
of the course taught by different instructors, please discuss how assessment is (or will be) carried out across instructors.

| A combination of tests, quizzes and projects are used to determine grades for the students. In their reports and exams students are asked to critically examine, compare and contrast the differences between the methods, tools and practices of non-instrument wayfinding as practiced by the traditional navigators. In addition they are expected to know the Hawaiian and non-Hawaiian names, declinations and locations of the individual stars, constellations and star lines used by the navigators. |

3. **Assessment of assessment.** How have you used (or plan to use) the assessment findings to modify or improve this course? If there are multiple sections of the course taught by different instructors, please discuss how review of assessment results is (or will be) carried out across instructors.

| Student assessment in various tests, quizzes, papers and reports help to determine how to modify and enhance the course to meet the diversification requirements as related to the Physical Sciences. Student evaluations of the course and instructor have also helped to improve delivery and assignments. Only one section of the course is offered. |
DIVERSIFICATION BOARD DECISION:

☑ Approved
Re-Certification Due: Fall 2017

☐ Not approved
If not approved, reasons for disapproval:

Diversification Board Chair Signature: [Signature]
Date: 11/1/12
Hawaiian Studies 281 Ho’okele I: Hawaiian Astronomy and Weather
Honolulu CC, Fall 2011 (CRN 20837)
TR 4:30-5:45pm; METC Rm. 2

Kumu: Ka‘iulani Murphy
Office: METC Office 4 (or on main campus 7-433L)
Office hours: TR 2:30-4:30 or by appointment
Contact: kmurphy@hawaii.edu or 842-9852

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Through our work in this course, you should be able to:
- Demonstrate knowledge of traditional Hawaiian concepts of the cosmos, space, direction and time and how these concepts compare with Western concepts
- Identify and name the components of the star compass used by Polynesian Voyaging Society trained navigators
- Identify and name (both Hawaiian and non-Hawaiian names) the four star lines used by contemporary wayfinders and the stars and constellations that make up those star lines
- Identify the declination of each star and how they relate to significant places in broader Polynesia
- Critically examine 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
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- 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 world view

COURSE REQUIREMENTS:
Readings:
Reading assignments will come from the Polynesian Voyaging Society Crew Manual (PVS) and can be found on Laulima (laulima.hawaii.edu/portal). Additional readings will supplement the Crew Manual.

Project:
Students (may be individual or in groups) 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, computer presentation, theater, visual arts, or another method of your choice. Projects must be approved.
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COURSE SCHEDULE:

8/23  Course introduction, expectations

8/25  VIDEO: clip from The Navigators – Mau Piailug’s concept of rising stars, cardinal points. Intro to starline concept as a way to familiarize one’s self with the sky. How they rise in the sky and their relationship to navigation. Sidereal/star compass.


9/1   SPACE, TIME AND DIRECTIONS – Video: Hokule‘a, The Rediscovery Begins Western vs. Oceanic Perspectives of space. The abstract grid vs. the tangible object/phenomena, linear vs. cyclical time. Fuzzy boundaries, shifting currents and hard data. Vocabulary of the heavens. Reading: PVS #2


9/8   CELESTIAL SPHERE – Concept of declination. Movement of celestial bodies, solstice, equinox, concept of houses. PVS #4

9/13  PACIFIC GEOGRAPHY – Review of Pacific island groups in Oceania, Longitude, latitude and general directions relative to Hawai‘i. How do stars relate to these groups? Reading: Look at map of Pacific from the best source you have available.

9/13  STARLINE 1, MANAIKALANI #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Manaiakalani”; Rhoads 1993: 3W, 4W, 6E, 7S.
9/15 STARLINE 1, MANAIKALANI #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Manaiakalani”; Rhoads 1993: 8N, 8E, 8S, 8W.

9/20 STARLINE 1, MANAIKALANI #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Manaiakalani”; Rhoads 1993: 9S, 9N, 9W, 10N, 10W, 11W, 12W.

9/22 STARLINE 2, KA LUPE NUI O KAWELO #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ka Lupe Nui”; Rhoads 1993: 8E, 10E, 10S, 11N.

9/27 STARLINE 2, KA LUPE NUI O KAWELO #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Ka Lupe Nui”; Rhoads 1993: 11S, 12S, 12W.

9/29 STARLINE 2, KA LUPE NUI O KAWELO #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Ka Lupe Nui”

10/4 REVIEW FOR MIDTERM

10/6 MIDTERM #1 – Material covered in preceding classes.

10/11 STARLINE 3, KE KA O MAKALI'I #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 1N, 1E, 1S, 1W.

10/13 STARLINE 3, KE KA O MAKALI'I #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 2N, 2E, 2S, 2W.

10/18 STARLINE 3, KE KA O MAKALI'I #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 11E, 12E.

10/20 STARLINE 4, IWIKUAMO'O #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ka Iwikuamo‘o”; Rhoads 1993: 3N, 3E, 3S.

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11/1 REVIEW FOR MIDTERM
11/3 MIDTERM #2 – Material covered in preceding classes.

11/8 NORTH SOUTH POINTERS Reading: PVS “Meridian Pointers”


11/15 VIDEO: HOKULE‘A – PROUD VOYAGE HOME – Video recounting the 1985 – 87 Voyages throughout the South Pacific and the problems that they had with weather. Readings: PVS #8

11/17 HISTORY OF POLYNESIAN VOYAGING SOCIETY (PVS): Discussion of the beginnings & purpose of PVS. Survey of the many journeys of Hokule‘a, Hawai‘i Loa, Makali‘i in various Pacific Islands. Reading: PVS #9

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11/24 HOLIDAY – THANKSGIVING DAY

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12/6 PROJECT PRESENTATIONS

12/8 PROJECT PRESENTATIONS Last Day of Class

FINAL EXAM: Thursday, December 15 4:30 pm

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9/15 STARLINE 1, MANAIKALANI #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS "Manaiakalani"; Rhoads 1993: 8N, 8E, 8S, 8W.

9/20 STARLINE 1, MANAIKALANI #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS "Manaiakalani"; Rhoads 1993: 9S, 9N, 9W, 10N, 10W, 11W, 12W.

9/22 STARLINE 2, KA LUPE NUI O KAWELO #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ka Lupe Nui”; Rhoads 1993: 8E, 10E, 10S, 11N.

9/27 STARLINE 2, KA LUPE NUI O KAWELO #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Ka Lupe Nui”; Rhoads 1993: 11S, 12S, 12W.

9/29 STARLINE 2, KA LUPE NUI O KAWELO #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Ka Lupe Nui”

10/4 REVIEW FOR MIDTERM

10/6 MIDTERM #1 – Material covered in preceding classes.

10/11 STARLINE 3, KE KA O MAKALI‘I #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 1N, 1E, 1S, 1W.

10/13 STARLINE 3, KE KA O MAKALI‘I #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 2N, 2E, 2S, 2W.

10/18 STARLINE 3, KE KA O MAKALI‘I #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Ke Ka o Makali‘i”; Rhoads 1993: 11E, 12E.

10/20 STARLINE 4, IWIKUAMO‘O #1 – Hawaiian and other names, constellations, north south pointers. In depth look at the stars in this line, their names both Hawaiian and Western, and historical information about the names. Reading: PVS “Ka Iwikuamo‘o”; Rhoads 1993: 3N, 3E, 3S.

10/25 STARLINE 4, IWIKUAMO‘O #2 – Learning the rising points (declinations) and houses of these stars. Reading: PVS “Ka Iwikuamo‘o”; Rhoads 1993: 4N, 4E, 4S, 5N, 5E, 5S.

10/27 STARLINE 4, IWIKUAMO‘O #3 – Students draw the starline from memory and identify island groups associated with various stars of this line. Reading: PVS “Ka Iwikuamo‘o”; Rhoads 1993: 6S, 6N, 6W, 10N, 10W, 7N, 7W.

11/1 REVIEW FOR MIDTERM
11/3 MIDTERM #2 – Material covered in preceding classes.

11/8 NORTH SOUTH POINTERs Reading: PVS “Meridian Pointers”


11/15 VIDEO: HOKULE‘A – PROUD VOYAGE HOME – Video recounting the 1985 – 87 Voyages throughout the South Pacific and the problems that they had with weather. Readings: PVS #8

11/17 HISTORY OF POLYNESIAN VOYAGING SOCIETY (PVS): Discussion of the beginnings & purpose of PVS. Survey of the many journeys of Hokule‘a, Hawai‘i Loa, Makali‘i in various Pacific Islands. Reading: PVS #9

11/22 HAWAIIAN AND PACIFIC WEATHER #1: Review of Pacific island groups with special focus on Polynesia. Look at weather systems in the Pacific & how they affect voyaging. Reading: PVS #10

11/24 HOLIDAY – THANKSGIVING DAY

11/29 HAWAIIAN AND PACIFIC WEATHER #2: Specific examination of Hawaiian weather and elements that affect voyaging in this archipelago. Names of Hawaiian seas. Reviewing the islands and reefs beyond Ni‘ihau. #11

12/1 REVIEW FOR FINAL

12/6 PROJECT PRESENTATIONS

12/8 PROJECT PRESENTATIONS Last Day of Class

FINAL EXAM: Thursday, December 15 4:30 pm

Additional Learning Resources:
http://www.pvs.kcc.hawaii.edu