

Maui Community College
Course Outline

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| 1. Alpha and Number | Oceanography 64
OCN 64 |
| Course Title | Hawaiian Marine Life Identification |
| Credits | 3 |
| Date of Outline | January 2005 |
| 2. Course Description | Teaches field identification of fishes, invertebrates, and marine algae. Studies ecology of coral reef species. Requires memorization of scientific names. Practices identification in the classroom and in the ocean for field research purposes. <i>Note: Successful completion fulfills marine life identification requirement for acceptance into Quantitative Underwater Ecological Surveying Techniques (QUEST). Does not fulfill Natural Science core requirements.</i> |
| 3. Contact Hours/Type | 3/ Lecture/lab |
| 4. Prerequisites | |
| Corequisites | |
| Recommended Preparation | Recommended: Enrollment in the Marine Option Program |

Received March 2004
Under Amnesty Program
SLOs Updated & Linked To Content
COWIQ Grid Prepared

Approved by _____ Date _____

5. General Course Objectives

Oceanography 64 teaches students to identify and name approximately 200 species of fishes, invertebrates and marine algae by their scientific, Hawaiian and English names. Students will explore coral reef ecology and develop an awareness of relationships between marine organisms that live in nearshore waters.

This course is designed to prepare students for coral reef research in Hawaii as well as acceptance into Quantitative Underwater Ecological Surveying Techniques (QUEST) MARE 264 at UH Hilo. It is also useful for marine naturalists in the visitor industry.

This course does not fulfill Natural Science core requirements. It does fulfill requirements for the Marine Option Program and Marine Naturalist Certificates.

6. Student Learning Outcomes

For assessment purposes, these are linked to #7. Recommended Course Content.
On successful completion of this course, students will be able to

- a. identify selected fishes, invertebrates, and marine algae on Hawaiian reefs
- b. write the scientific names of approximately 200 species of Hawaiian marine life
- c. describe the ecology of coral reef species in Hawaii
- d. explain basic taxonomy of Hawaiian marine life

7. Recommended Course Content and Approximate Time Spent on Each Topic

Linked to #6. Student Learning Outcomes.

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|-----------|--|
| 1 session | Overview of Hawaiian reefs (c, d) |
| 5 weeks | Learn to identify reef fish in the classroom with slides, and field trips to the Maui Ocean center and one snorkel trip. (a, b, c) |
| 5 weeks | Learn to identify Hawaiian marine invertebrates in the classroom and at least 1 field trip to the reef, tidepools or aquarium. (a, b, c, d) |
| 4 weeks | Identify Hawaiian marine algae in the classroom with slides and fresh or dried specimens. (a, b, c, d)
At least 1 field trip to the beach to collect seaweed (a)
Make pressings of seaweed (a, b, d) |

8. Text and Materials, Reference Materials, Auxiliary Materials and Content

Appropriate texts and materials will be chosen at the time the course is offered from those currently available in the field. Examples include field guides such as:
 Hoover, J 1999. *Hawai'i's Sea Creatures, A guide to Hawai'i's Invertebrates*. Mutual Publishing, Honolulu
 Hoover, J 1993, *Hawai'i's Fishes A Guide for Snorkelers, Divers and Aquarists*. Mutual Publishing, Honolulu
 Randall, J. 1996. *Shoreline Fishes of Hawai'i*. Natural World Press, Vida, OR

9. Recommended Course Requirements and Evaluation

Course should include the current QUEST species list at the time the course is offered. Additional materials are at the discretion of the instructor at the time the course is being offered.

50 - 80%	Written exams covering species lists and/or lecture materials
20-50%	Assignments
10-20%	Field trip observations and reports
0-10%	Seaweed pressing and identification
0-10%	Punctuality, attendance and participation

10. Methods of Instruction

Instructional methods will vary with instructors. Specific methods will be at the discretion of the instructor teaching the course and may include, but are not limited to

- a. watching slides and videos
- b. identifying specimens
- c. field trips to observe and note species in the ocean or at the aquarium
- d. flash cards
- e. homework reading and identification practice
- f. quizzes and tests

Standard 4 - Oral Communication

	OCN	OCN	OCN	OCN	OCN													
	64	101	140	191V	293													
Outcome 4.1 - Identify and analyze the audience and purpose of any intended communication.	0	2	0	1	1													
Outcome 4.2 - Gather, evaluate, select, and organize information for the communication.	0	2	0	2	2													
Outcome 4.3 - Use language, techniques, and strategies appropriate to the audience and occasion.	0	2	0	1	1													
Outcome 4.4 - Speak clearly and confidently, using the voice, volume, tone, and articulation appropriate to the audience and occasion.	0	2	0	1	1													
Outcome 4.5 - Summarize, analyze, and evaluate oral communications and ask coherent questions as needed.	0	0	0	0	0													
Outcome 4.6 - Use competent oral expression to initiate and sustain discussions.	0	1	0	1	1													

