

Maui Community College  
Course Outline

- |                         |   |
|-------------------------|---|
| 1. Alpha and Number     | Oceanography 140<br>OCN 140   |
| Course Title            | Open Water Scuba Certification  |
| Credits                 | 2   |
| Date of Outline         | February 2005   |
| 2. Course Description   | Covers the full spectrum of diving activities. Discusses equipment and its maintenance, dive physiology, and physics, safety procedures, dive planning, dive tables, and environmental conditions. Teaches skills for safe diving by means of classroom lectures, and open-water sessions. Students successfully completing the course receive <u>internationally recognized Open Water SCUBA certification card. Credit/non credit only</u><br><i>See 7001 CAR</i> |
| 3. Contact Hours/Type   | 2 lecture/ lab  |
| 4. Prerequisites        |   |
| Corequisites            |   |
| Recommended Preparation |   |

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

Approved by \_\_\_\_\_ Date \_\_\_\_\_

## 5. General Course Objectives

To provide students with the opportunity to learn a lifelong skill in a safe and nurturing setting. To teach students about the marine environment and to promote awareness about the underwater world and its relationship to our local environment. To provide an academic learning environment for students pursuing a career in marine-related disciplines, or those needing access to the underwater environment for proposed or future research projects,

## 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. explain the role and maintenance of all essential SCUBA equipment
- b. demonstrate proper set up of SCUBA gear
- c. demonstrate skills for safe diving including buddy skills
- d. practice proper buoyancy control
- e. explain the effects of compressed gasses and pressure on various parts of the body
- f. explain proper techniques to avoid physiological diving related problems.
- g. Demonstrate proper use of dive tables to plan depth, time and repetitive dives
- h. list and describe environmental conditions such as waves and currents that are important to safety in SCUBA diving
- i. Explain ways divers can help to preserve the diving environment
- j. pass certification exams from internationally recognized SCUBA association

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

*Linked to #6. Student Learning Outcomes.*

The course is divided into lecture and open-water sessions. Students will learn and apply concepts taught in the lectures in the ocean environment.

Lectures:

- |           |   |
|-----------|---|
| 1 session | Introduction to SCUBA, dive equipment and maintenance (a,b) |
| 1 session | Dive physics and physiology (e,f,g)                         |
| 1 session | Dive tables and computers (f,g)                             |
| 1 session | Diving safety (c,d,f,h)                                     |
| 1 session | The diving environment (h,i)                                |

Open water skills:

- |            |   |
|------------|---|
| 1 session  | Swimming and skin diving skills, site orientation and assessment methods (c,h,i ) |
| 6 sessions | Gearing up (b )<br>Equipment and buddy checks (b,c)                               |

Entries and exits (c,h)  
 Snorkel/ regulator exchanges (c)  
 Buoyancy control (d)  
 Hand signals (c)  
 BC inflation techniques (d)  
 Mask and regulator clearing and recovery techniques (c)  
 Monitoring of SPG (c,g)  
 Rescue techniques (surface and underwater) (c)  
 Controlled descents and ascents (c,d,e,f,i)  
 Underwater navigation (natural aids and compass) (c)  
 Air sharing techniques and ascents (c)  
 Equipment removal and replacement (surface and underwater) (c)  
 Air consumption monitoring (c,g )  
 Underwater touring methods and the buddy system (c)  
 Dive planning, safety, and emergency procedures (g)

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

Textbook from certifying agency, diving tables and logbook. There are numerous other textbooks available including the University of Hawai'i Diving Safety Manual and several diving journals and periodicals for student use. Books on Hawaiian marine life are available at the Marine Option Program office.

#### 9. Recommended Course Requirements and Evaluation

Students must learn, demonstrate, and perform all water skills at a satisfactory level in order to be certified. In addition, students must pass a standardized written exam in order to receive certification. Students receive a grade of credit/no credit only in the course, but receive an internationally recognized certification card attesting to their skill level after successfully completing the course.

#### 10. Methods of Instruction

Lectures, discussion and visual aids are used in this course. The students also will do one skin dive and six open-water ocean dives to learn and practice required skills for certification under the direct and close supervision of the instructor. Students will complete assignments from their workbooks, and must demonstrate proficiency in all required water skills in order to be certified.







**Standard 4 - Oral Communication**

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

