WINDWARD COMMUNITY COLLEGE
COURSE OUTLINE

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.

COURSE NAME: Set-up and Maintain a Marine Aquarium

COURSE ALPHA: OCN 199

CREDIT HOURS: 03

COURSE DESCRIPTION:

A Marine Option Program skill project involving the set-up and maintenance of a 500 gallon marine aquarium tank.

REQUIREMENTS COURSE SATISFIES:

Credits from this class may be applied towards credits needed for graduation as an elective course.

The activities conducted may qualify as a Marine Option Program student skill project as required for the Marine Option Program certificate.

INSTRUCTOR: Dr. David Krupp

OFFICE: Hale ‘Imiloa 121A

TELEPHONE: 236-9121

EFFECTIVE DATE: Spring 2011
LEARNING OUTCOMES:

The learning outcomes are:

- Design and set up a marine aquarium refugium system up to 500 gallons.
- Collect and analyze marine aquarium water quality data to evaluate the effectiveness of the system.
- Maintain the tank and its inhabitants in a healthy condition.
- Produce a scientific research paper that reports on the study.

ASSESSMENT TASKS

- IACUC protocol: (1) receive IACUC animal care training; (2) seek and receive IACUC approval for protocol involving the maintenance of aquarium fish.
- Project implementation and completion: (1) redesign filtration system to include refugium; (2) improve tank water circulation and lighting; (3) stock tank with inhabitants; (4) maintain tank, including feeding, algae removal, salinity adjustment, and periodic water changes; and (5) collect and interpret water quality data; and (6) keep accurate records of tank conditions, water quality, and status of inhabitants.
- Complete a written report describing in detail activities and results.

EVALUATION OF OBJECTIVE ACHIEVEMENT AND METHOD OF GRADING

The assignment of points will be according to the following protocol:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>IACUC protocol</td>
<td>50</td>
</tr>
<tr>
<td>Project Implementation/Completion</td>
<td>100</td>
</tr>
<tr>
<td>Final Research Paper</td>
<td>100</td>
</tr>
<tr>
<td>TOTAL</td>
<td>250</td>
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Letter grades will be assigned as follows:

A 90% or above in total points.
B 80-89% of total points.
C 65-79% of total points.
D 55-64% of total points.
F Below 55% of total points.
I Incomplete; given at INSTRUCTORS OPTION when student is unable to complete a small part of the course because of circumstances beyond his or her control. It is the STUDENT’S responsibility to make up incomplete work with a minimum level (or better) of achievement. Failure to satisfactorily make up incomplete work within the appropriate time period will result in a grade change for "I" to the contingency grade identified by the instructor (see catalog).
CR 65% or above in total points; the student must indicate the intent to take the course as CR/NC in writing as described in the college catalog.
NC Below 65% of total points; this grade only available under the CR/NC option (see above and see catalog);
N NOT GIVEN BY THIS INSTRUCTOR EXCEPT UNDER EXTREMELY RARE CIRCUMSTANCES (e.g., documented serious illness or emergency that prevents the student from officially withdrawing from the course); never used as an alternative for an "F" grade;
W Official withdrawal from the course as described in the college catalog.