

BIOL 299 Pelagic Shark Study

03 Credits

INSTRUCTOR: David A. Krupp
OFFICE: Hale 'Imiloa 121A
TELEPHONE: 236-9121
EFFECTIVE DATE: Spring 2017

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage.

With a special commitment to support the access and educational needs of Native Hawaiians, we provide O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

A Marine Option Program skill project involving a study of pelagic sharks observed during One Ocean Diving's "Pelagic Shark Program" which provides educational opportunities to observe sharks in their native habitat without the use of cages. The student will document animal characteristics and behaviors while participating in her role as a dive leader for the program. Information and data collected will be used to create a database of specific individual sharks for future research and education that will be applied to the protection and conservation of pelagic sharks in Hawaiian waters.

STUDENT LEARNING OUTCOMES

The student learning outcomes are:

- Revise and complete written MOP project proposal that lays out a clear plan for this project.
- Manufacture and use an underwater laser device to measure shark size.
- Carry out underwater visual, video and photographic documentation of sharks.
- Record significant behaviors elicited by animals observed and correlate these behaviors to possible environmental cues.
- Complete a written technical report in the form of a scientific research paper.
- Make a formal oral presentation describing the results of the study.

COURSE TASKS

The student will achieve these outcomes by participation in the following tasks:

- Revise existing MOP project proposal to reflect the project being proposed
- Implement and complete project carrying out the following activities:
 - Manufacture a dual-laser-camera system that can be used to measure the sizes of sharks from a distance.
 - Using visual, photographic and video observations, collect data regarding the characteristics and behaviors of sharks observed in the water.

- Summarize and analyze the data collected.
- Make an oral presentation about the study at the Spring 2017 Marine Option Program Skill Project Symposium.
- Following the format for a scientific research paper, complete a final Marine Option Program skill project report documenting activities, providing a self-assessment of achievement of project outcomes, and describing how participation in the project may have contributed to academic and career goals.

GRADING

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

Complete Project Proposal	50 points
Project Implementation	150 points
Symposium Presentation	100 points
Final Paper	100 points
TOTAL	500 points

Letter grades will assigned as follows:

A	90% or above in total points.
B	80-89.9% of total points.
C	70-79.9% of total points.
D	60-69.9% of total points.
F	Below 60% of total points or informal or incomplete official withdrawal from course or unacceptable attendance (<85% of scheduled days and activities).
I	Incomplete; given at the INSTRUCTOR'S 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. 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	70% or above in total points; the student must indicate the intent to take the course as CR/NC in writing by the end of the 10th week of classes (see catalog).
NC	Below 70% 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); not used as an alternative for an "F" grade.
W	Official withdrawal from the course (see catalog).

Waiver of minimum requirements for specific grades may be given only in unique situations at the instructor's discretion.

WINDWARD COMMUNITY COLLEGE INDEPENDENT STUDY PROJECT PROPOSAL FORM

(Refer to current WCC Catalog for registration deadline)

(Please type or print clearly in black or blue ink)

Student's Name: Burns Kayleigh N. ID #: 24819161
Last First MI

Mailing Address: 91-2111 Kai'oli Street Unit #2403
Street

Ewa Beach HI 96706 Phone No.: 215-208-5432
City State Zip Code

Degree Objective: MOP Certificate Major: N/A

General Project Information

BIOL 99V 199V 299V No. of Credits: 3 Grading Method: A-F CR-NC
Discipline (1 - 4)

Start date: 01 / 23 / 2017 End date: 05 / 12 / 2017 This project/study is an extension of:
OCN 101
Course Number

Project Advisor: David Krupp Contact Info: krupp@hawaii.edu

Title of Project (20 characters max):

P	e	l	a	g	i	c		S	h	a	r	k		s	t	u	d	y
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To be filled out by Vice Chancellor of Instruction's Office:

Course Alpha: BIOL 299V

CRN: 64472

Semester (Check One): Fall Spring Summer

Year: 2017

If no course exists, please give reasons why the project should be approved.

Required Signatures

Student:  Date: 1/10/17

Project Advisor:  Date: 1/10/17

Dept. Chair:  Approved Disapproved Date: 1/10/17

Dean or Vice Chancellor of Instruction:  Approved Disapproved Date: 1/10/17