

Syllabus for Laboratory in Oceanography– Eureka Campus		
Semester & Year	Fall 2017	
Course ID and Section #	OCEAN-10 E-2736 / E-3848	
Instructor's Name	Danny O'Shea	
Day/Time	Tuesday, Thursday 8:30AM – 9:55 AM	
Location	Humanities Bldg, Room HU125	
Number of Credits/Units	1	
Contact Information	<i>Office location</i>	HU 125A
	<i>Office hours</i>	T 11:30 – 12:30 or by appointment
	<i>Phone number</i>	n/a
	<i>Email address</i>	danny-oshea@redwoods.edu
Textbook Information	<i>Title & Edition</i>	Laboratory in Oceanography
	<i>Author</i>	Daniel C. O'Shea
	<i>ISBN</i>	n/a
Course Description		
<p>An introduction to the Earth's ocean including marine environments, geology, plate tectonics, fundamental chemical and physical properties of seawater, atmospheric-oceanic relationships, oceanic circulation, coastal environments and biological productivity.</p>		
Student Learning Outcomes		
<p>1) Use the formal methodology of the scientific method as an inquiry-based tool to critically evaluate oceanic phenomena.</p> <p>2) Describe how energy is transferred between different elements of the Earth's geologic, oceanic, atmospheric, and biological systems.</p> <p>3) Apply oceanographic principles to describe how coastal materials and landscapes change over time.</p> <p>4) Apply concepts of physics and chemistry to quantitatively explain variations in the characteristics of the oceanic environment.</p>		
Special Accommodations		
<p>College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS at 707-476-4280.</p>		
Academic Support		
<p>Academic support is available at Counseling and Advising and includes academic advising and educational planning, Academic Support Center for tutoring and proctored tests, and Extended Opportunity Programs & Services, for eligible students, with advising, assistance, tutoring, and more.</p>		

Academic Honesty

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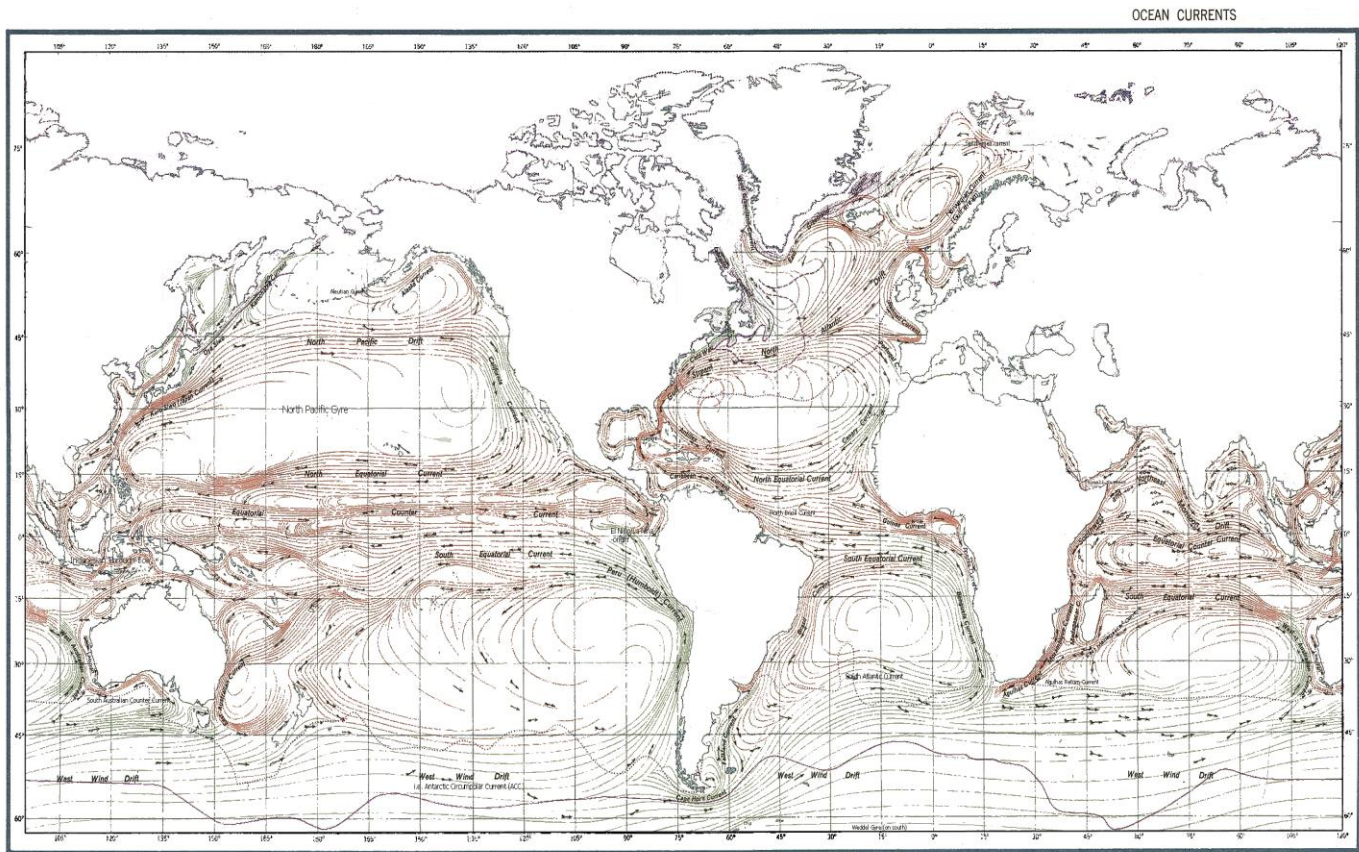
(http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf). For more information on Public Safety, go to <http://redwoods.edu/safety/> In an emergency that requires an evacuation of the building:

- Be aware of all marked exits from your area and building.
- Once outside, move to the nearest evacuation point outside your building:
- Keep streets and walkways clear for emergency vehicles and personnel.
- Do not leave campus, unless it has been deemed safe by the Incident Commander or campus authorities. (CR's lower parking lot and Tompkins Hill Rd are within the Tsunami Zone.)

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College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

Introduction to Oceanography
Oceanography 10 - E2736 / E3848
College of the Redwoods
Fall 2017



Syllabus
Instructor Danny O'Shea

Oceanography 10 – E2736/E3848
Introduction to Oceanography
Danny O'Shea

Fall 2017
Room HU 125
e-mail: danny-oshea@redwoods.edu

TTh 8:30 a.m. – 9:55 a.m.
Office HU 125A

Course Description: This course is an introduction to the Earth's oceans and includes the study of marine geology, plate tectonics, and the physical and chemical properties of seawater, oceanic-atmospheric circulation, marine environments, and biological productivity and marine ecology. Through this course you will gain a scientific perspective of how marine systems modify the oceans, shorelines and how energy is transferred through biogeochemical cycles in the Earth's Ocean. This 3-unit course meets Tuesday and Thursday in Room HU125 on the CR main Eureka campus at 10:05 a.m. The course will follow the syllabus outlined below, however, material will shift to accommodate events or discoveries that occur during the semester.

Syllabus

<u>Week</u>	<u>Day-Month</u>	<u>Topic</u>	<u>Chapter</u>	<u>In-Class Activities</u>	<u>Online Quiz</u>
1	29 - Aug 31 - Aug	Introduction Exploration	1	1) Charts, Latitude Longitude & Time	1
2	5 - Sep 7 - Sep	Ocean Basins Plate Tectonics	2 3	2) Plate Boundaries & Marine Geology	2
3	12 - Sep 14 - Sep	Seafloor Sediments <u>Research Outline Due</u>	4	3) Hawai'ian Hot Spot Exam Review	3
4	19 - Sep 21 - Sep	1 st Exam Water & Salinity	1 - 4 5	4) Seawater Chemistry	4
5	26 - Sep 28 - Sep	Seawater Chemistry Physical Properties	5	5) Pressure, pH & CO ₂	5
6	3 - Oct 5 - Oct	Atmospheric Circulation	6	6) Coriolis Effect	6
7	10 - Oct 12 - Oct	Ocean Circulation	7	7) Ocean Circulation	7
8	17 - Oct 19 - Oct	<u>Research Paper Due</u> 2 nd Exam	5 - 7	Exam Review	
9	24 - Oct 26 - Oct	Ocean Waves	8 9	8) Ocean Wave Prediction	8
10	31 - Oct 2 - Nov	Tides	10	9) Ocean Tides	9
11	7 - Nov 9 - Nov	Coastlines / Deltas 3 rd Exam	6 -10	Exam Review	
12	14 - Nov 16 - Nov	Life in the Ocean Plankton	11 12	10) Life in the Ocean	10
13	21 - Nov 23 - Nov	Thanksgiving		No Class	
14	28 - Nov 30 - Nov	Marine Animals	13		
15	5 - Dec 7 - Dec	Biological Oceanography Ocean Ecology	14 15		Notebooks Due
17	14 - Dec	Final Exam	1 - 15	Final Exam	

Office Hours: Tuesday 11:45 – 13:30 or by appointment. Room 125A. The best way to contact me is via e-mail at: danny-oshea@redwoods.edu

Reading

You will need an Introductory Oceanography textbook to successfully complete the Ocean-10 course. New textbooks are very expensive, so I have set up this course so that any recent (published since c.a. 2005) edition of an Intro Oceanography textbook will suffice. You will need to read the chapter(s) to be discussed **BEFORE** you come to class. This will make the lectures more interesting, and improve your learning experience. A course outline is posted on Canvas so that you can review topics covered in the classroom. I strongly encourage you to investigate other sources of information, such as, news feeds, journal articles, and other media.

Textbooks may be available at local bookstores, online and are required as a background reading to improve your general understanding of the material. Any recent edition of a Introductory Oceanography textbook will suffice, however, you will need to cross reference the chapter from the syllabus and outline available on the Canvas website (www.redwoods.edu). **Read the chapters before you come to class.**

Taken with the laboratory, Oceanography-11, this course is transferable to CSU and UC schools as a science class with a laboratory. Ocean-11 is offered in the Spring semester only.

Course Learning Outcomes:

- 1) Use the formal methodology of the scientific method as an inquiry-based tool to critically evaluate oceanic phenomena.
- 2) Describe how energy is transferred between different elements of the Earth's geologic, oceanic, atmospheric, and biological systems.
- 3) Apply oceanographic principles to describe how coastal materials and landscapes change over time.
- 4) Apply concepts of physics and chemistry to quantitatively explain variations in the characteristics of the oceanic environment.

Grading:

Your performance on: the 4 Exams; Research Paper; In-class Activities, Online Quizzes, Readings, and Class Participation determine the grade you receive. There are 1000 points available and grades are assigned by the percentage of total points as follows:

1000-900=A | 899-800=B | 799-700=C | 699-600=D | <599=F

Grading Summary:

	Points
➤ 3 Exams and 1 Final:	400
➤ Course Notes and Illustrations	150
➤ Research outline and report	150
➤ Activities	150
➤ Online Quiz	100
➤ Participation	50
Total Points:	1,000

Exams

There are 3 exams the semester, and a cumulative final exam, each that is **100 points**. The exams are a mix of multiple choice, true/false, short answer, and essay questions based on the lectures, activities, homework, and course reading. The final is cumulative and will concentrate on physical, chemical, and geological topics relevant to the biological topics covered during the last several weeks of the course. Each student is required to submit a multiple-choice question for the final exam based on the information presented by the student during the last two weeks of class.

Course Notes and Illustrations

Most classes will include notes and illustrations put up on the board that explain to the specific topics being covered for that day. Students are required to keep a notebook as a record all illustrations, notes, graphs, plots and lecture material presented. Credit is given for careful reproduction of the notes

Faculty Initiated Drop

If you miss more than 3 class meetings over the course of the semester you will be dropped from this course. If you have an emergency situation arise, please let me know why you are unable to attend the class.

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