

## Syllabus for Laboratory in Oceanography– Eureka Campus

<b>Semester &amp; Year</b>	<b>Spring 2019</b>	
<b>Course ID and Section #</b>	<b>OCEAN-10 E-5252 E-5253</b>	
<b>Instructor's Name</b>	<b>Danny O'Shea</b>	
<b>Day/Time</b>	<b>Tuesday, Thursday / 8:30AM – 9:55AM</b>	
<b>Location</b>	<b>Humanities Bldg, Room HU125</b>	
<b>Number of Credits/Units</b>	<b>3</b>	
<b>Contact Information</b>	<i>Office location</i>	<b>HU 125A</b>
	<i>Office hours</i>	<b>T Th 11:30AM – 12:30PM or by appointment</b>
	<i>Phone number</i>	<b>n/a</b>
	<i>Email address</i>	<b>danny-oshea@redwoods.edu</b>
<b>Textbook Information</b>	<i>Title &amp; Edition</i>	<b>Oceanography Notes</b>
	<i>Author</i>	<b>Daniel C. O'Shea</b>
	<i>ISBN</i>	<b>n/a</b>
<b>Course Description</b>		
<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>		
<b>Student Learning Outcomes</b>		
<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>		
<b>Special Accommodations</b>		
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<b>Academic Support</b>		
<p>Academic support is available at <a href="#">Counseling and Advising</a> and includes academic advising and educational planning, <a href="#">Academic Support Center</a> for tutoring and proctored tests, and <a href="#">Extended Opportunity Programs &amp; Services</a>, for eligible students, with advising, assistance, tutoring, and more.</p>		

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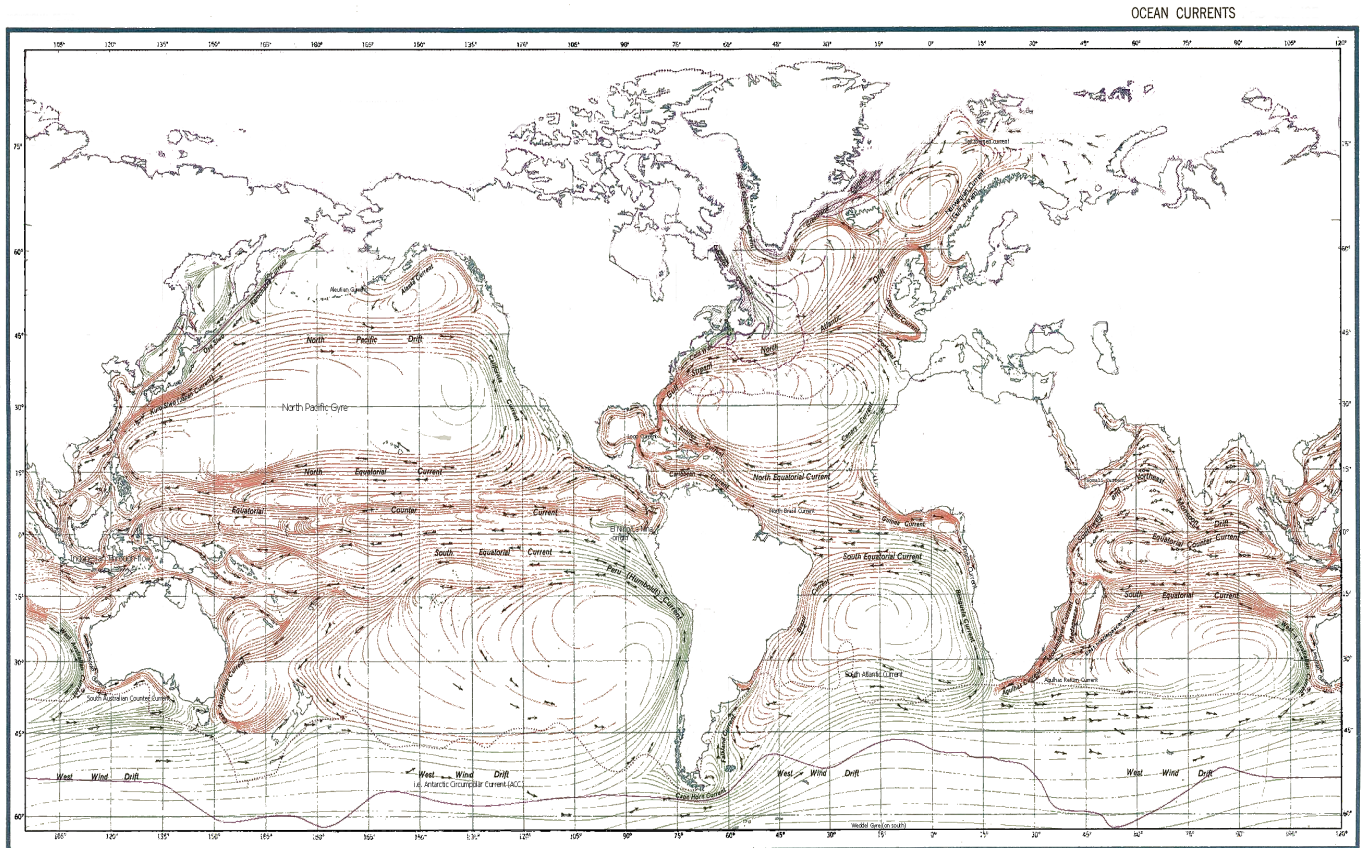
([http://www.redwoods.edu/Eureka/campus-maps/EurekaMap\\_emergency.pdf](http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf)). For more information on Public Safety, go to <http://redwoods.edu/safety/> In an emergency that requires an evacuation of the building:

- 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**  
**OCEAN-10 E-5252 E-5253**  
**College of the Redwoods**  
**Spring 2019**



**Syllabus**  
**Instructor Danny O'Shea**

**OCEAN-10 E-5252 E-5253**  
**Introduction to Oceanography**  
**Office HU 125A**

**Spring 2019**

**TTh 8:30AM– 9:55AM**

**Danny O'Shea**

**Room HU 125**

**e-mail: [danny-oshea@redwoods.edu](mailto:danny-oshea@redwoods.edu)**

**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 08:30 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	22 - Jan 24 - Jan	Introduction	1	1) Charts, Latitude Longitude & Time	1
2	29 - Jan 31 - Jan	Exploration Ocean Basins	2	2) Plate Boundaries & Marine Geology	2
3	5 - Feb 7 - Feb	Plate Tectonics	3	3) Hawai'ian Hot Spot <u>Research Outline Due</u>	3
4	12 - Feb 14 - Feb	Seafloor Sediments 1 <sup>st</sup> Exam	4 1 - 4	Exam Review	4
5	19 - Feb 21 - Feb	Water & Salinity Seawater Chemistry	5	4) Seawater Chemistry 5) Pressure, pH & CO <sub>2</sub>	5
6	21 - Feb 23 - Feb	Physical Oceanography	6	6) Coriolis Effect	6
7	26 - Feb 28 - Feb	Atmospheric Circulation	7	7) Ocean Circulation	7
8	5 - Mar 7 - Mar	Ocean Circulation 2 <sup>nd</sup> Exam	5 - 7	Exam Review	
9	12 - Mar 14 - Mar	Ocean Waves	8	8) Ocean Wave Prediction	
10	19 - Mar 21 - Mar	Spring Break		No Classes	8
11	26 - Mar 28 - Mar	Tides	9	9) Ocean Tides Research Paper Due	9
12	2 - Apr 4 - Apr	Coastlines Deltas	10		
13	9 - Apr 11 - Apr	3 <sup>rd</sup> Exam	6 - 10	Exam Review	
14	16 - Apr 18 - Apr	Life in the Ocean Plankton	11 12		10
15	23 - Apr 25 - Apr	Marine Animals	13	10) Life in the Ocean	
16	30 - Apr 2 - May	Biological Oceanography	14 15		
17	7 - May 9 - May	Ocean Resources Marine Pollution	16	Notebooks Due	
		<b>Final Exam</b>	<b>1 - 16</b>	<b>Final Exam</b>	

**Office Hours:** Tuesday 11:45AM – 12:30PM or by appointment. Room 125A.  
The best way to contact me is via e-mail at: [danny-oshea@redwoods.edu](mailto: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](http://www.redwoods.edu)). **Read each chapter 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.
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### **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:**

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

### **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.



know before the class starts. Eating, drinking, texting, and chatting are social activities, and are best done outside the class. Thank-you.

### **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 to miss a class, please let me know a day before the class.

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