

<b>Syllabus for Introduction to Oceanography– Eureka Campus</b>		
<b>Semester &amp; Year</b>	<b>Fall 2016</b>	
<b>Course ID and Section #</b>	<b>OCEAN-10-E0203</b>	
<b>Instructor's Name</b>	<b>Danny O'Shea</b>	
<b>Day/Time</b>	<b>Tuesday, Thursday 1:15PM - 2:40PM</b>	
<b>Location</b>	<b>Humanities Bldg, Room HU110</b>	
<b>Number of Credits/Units</b>	<b>3</b>	
<b>Contact Information</b>	<i>Office location</i>	HU 125 A
	<i>Office hours</i>	T Th 11:40 – 13:00 or by appointment
	<i>Phone number</i>	
	<i>Email address</i>	danny-oshea@redwoods.edu
<b>Textbook Information</b>	<i>Title &amp; Edition</i>	<b>Introduction to Oceanography</b>
	<i>Author</i>	<b>Daniel C. O'Shea</b>
	<i>ISBN</i>	<b>na</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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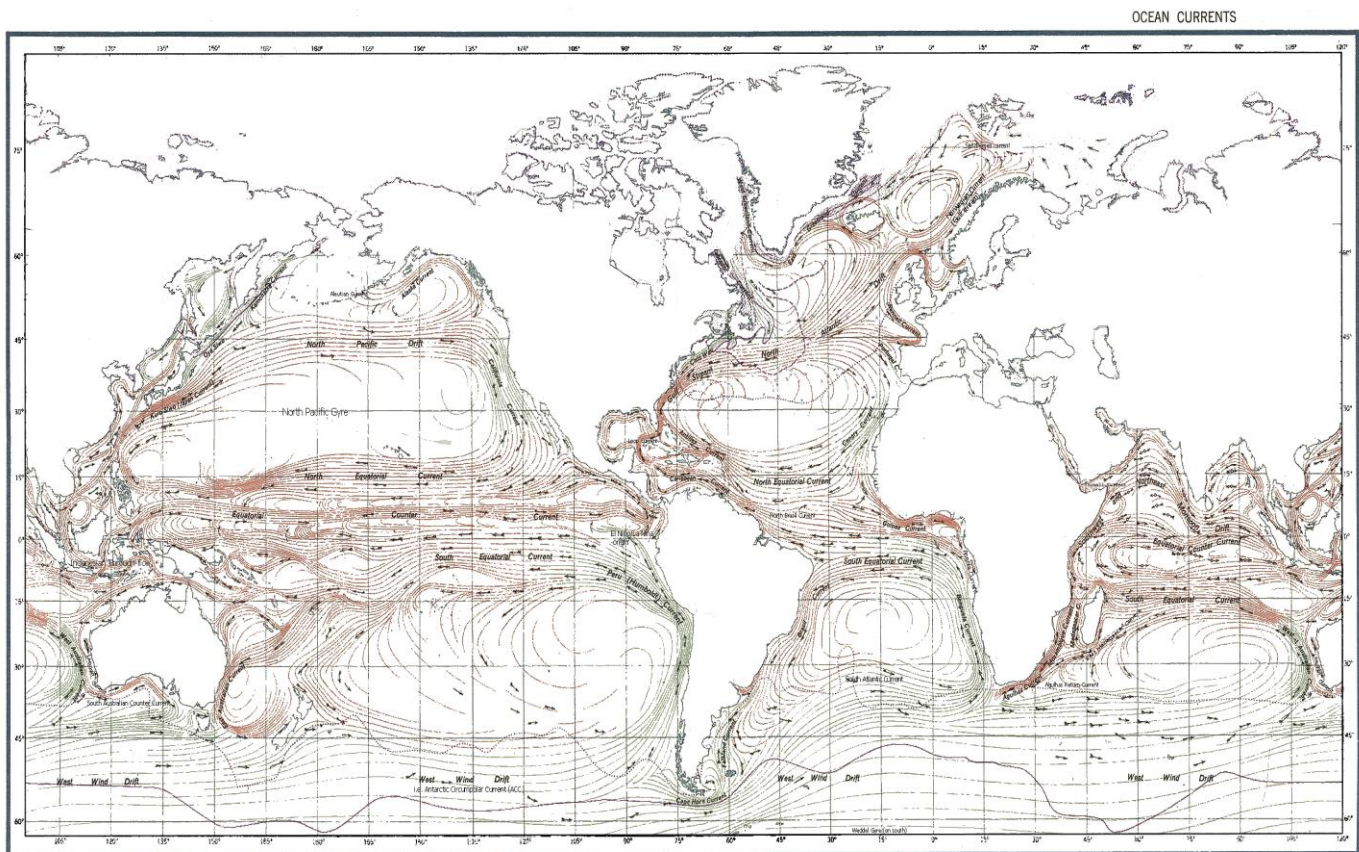
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*College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.*

**Introduction to Oceanography**  
**Oceanography 10 / E0203**  
**College of the Redwoods**  
**Fall 2016**



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

**Oceanography 10 - E0203**  
**Introduction to Oceanography**  
**Danny O'Shea**

**Fall 2016**  
**Room HU 110**  
**e-mail: [danny-oshea@redwoods.edu](mailto:danny-oshea@redwoods.edu)**

**T Th 1:15 p.m. – 2:40 p.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 HU110 on the CR main Eureka campus at 1:15 p.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	30 - Aug 1 - Sep	Introduction Exploration	1	1) Charts, Latitude Longitude & Time	1
2	6 - Sep 8 - Sep	Ocean Basins Plate Tectonics	2 3	2) Plate Boundaries & Marine Geology	2
3	13 - Sep 15 - Sep	Seafloor Sediments Research Outline Due	4	3) Hawai'ian Hot Spot Exam Review	3
4	20 - Sep 22 - Sep	1 <sup>st</sup> Exam Water & Salinity	1 - 4 5	4) Seawater Chemistry	4
5	27 - Sep 29 - Sep	Seawater Chemistry Physical Properties	5	5) Pressure, pH & CO <sub>2</sub>	5
6	4 - Oct 6 - Oct	Atmospheric Circulation	6	6) Coriolis Effect	6
7	11 - Oct 13 - Oct	Ocean Circulation	7	7) Ocean Circulation	7
8	18 - Oct 20 - Oct	Research Paper Due 2 <sup>nd</sup> Exam	5 - 7	Exam Review	
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11	8 - Nov 10 - Nov	Coastlines / Deltas 3 <sup>rd</sup> Exam	6 -10	Exam Review	
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13	22 - Nov 24 - Nov	Thnaksgiving		No Class	
14	29 - Nov 1 - Dec	Marine Animals	13		
15	6 - Dec 8 - Dec	Biological Oceanography Ocean Ecology	14 15		Notebooks Due
17	15 - Dec	Final Exam	1 - 15	Final Exam	

**Office Hours:** Tuesday and Thursday 11:45 – 12:30 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 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.
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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.



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