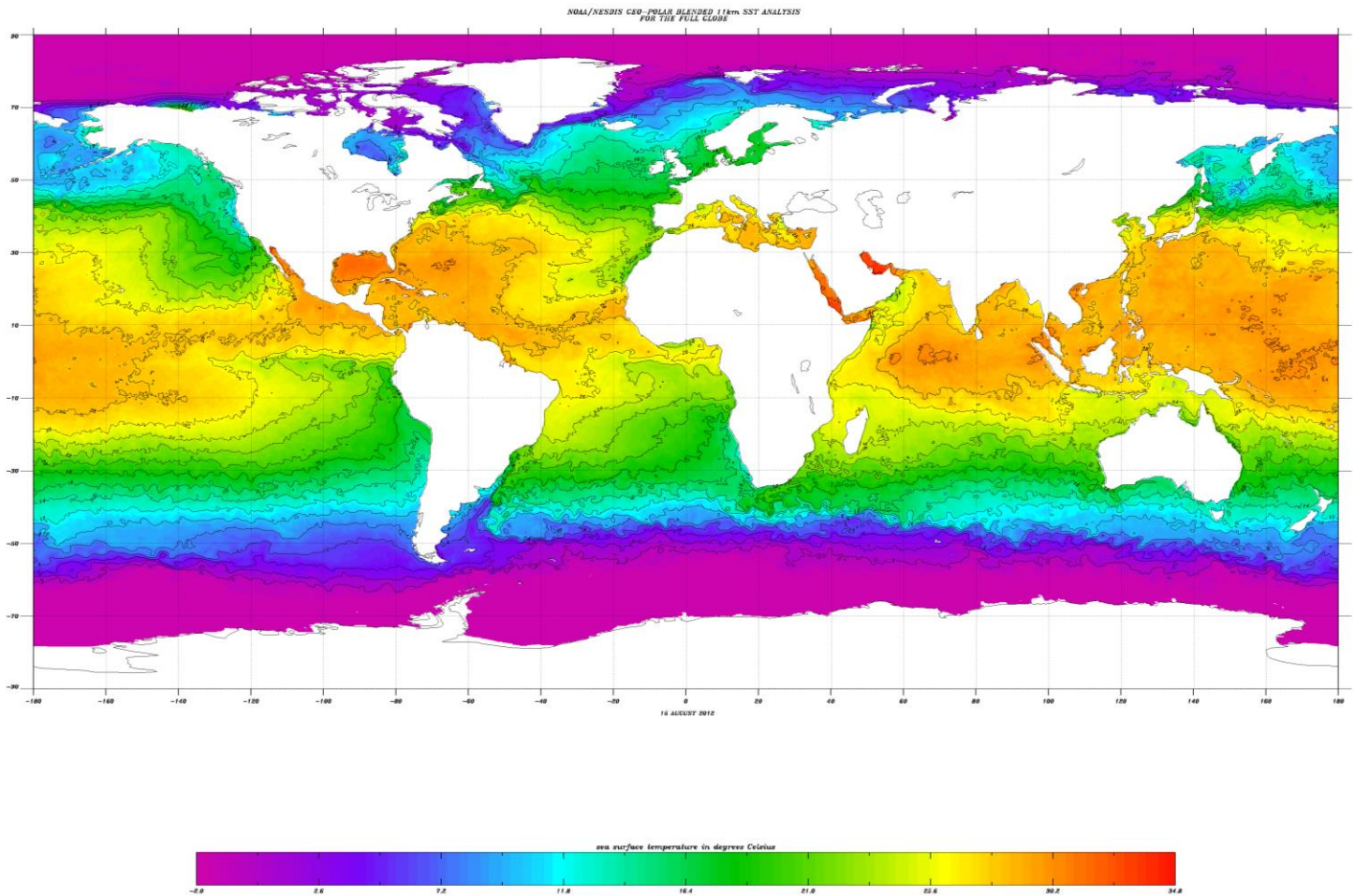


Syllabus for: 2014F-OCEAN-12-E5914-OShea	
Semester & Year:	Fall 2014
Course ID and Section Number:	OCEAN-12-E5914
Number of Credits/Units:	3
Day/Time:	T Th / 11:40am -1:05 pm
Location:	HU 125
Instructor's Name:	O'Shea
Contact Information:	Office location and hours: HU 125A T Th 1:05 pm – 2:05pm Phone (707) 476-4210 x 4823 Email:danny-oshea@redwoods.edu
Course Description (catalog description as described in course outline): A study of the fundamental principles of oceanography and the resources available from the sea. The basic concepts of physical, chemical, geologic, and biological oceanography will be explored in discussions on marine mineral resources, ocean energy, living resources of the sea, marine pollution, and ocean management.	
Student Learning Outcomes (as described in course outline) : 1) Use the formal methodology of the scientific method as an inquiry-based tool to critically evaluate oceanic phenomena. 2) Describe the transfer of energy between different elements of the Earth's geologic, oceanic, atmospheric, and biological systems. 3) Analyze changes to the global ocean and climate systems in the context of anthropogenic influence and societal impacts. 4) Describe the origin of oceanic resources (such as marine life, energy resources, and minerals) and the consequences of resource management choices.	
Special accommodations: 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.	
Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course. The student code of conduct is available on the College of the Redwoods website at: http://redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage.	
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.	

Environmental Oceanography
Oceanography 12 – E 5914
College of the Redwoods
Fall 2014



Syllabus

Instructor Danny O'Shea

Oceanography 12 / E-5914
 Introduction to Oceanography
 Office HU 125A

Fall 2014
 Danny O'Shea
 e-mail: danny-oshea@redwoods.edu

TTh 11:40 a.m. – 1:05 p.m.
 Room HU 125

Course Description: Environmental Oceanography is the study of the fundamental principles of oceanography and the resources available from the sea. The basic concepts of physical, chemical, geologic, and biological oceanography will be explored with discussions and activities on marine resources, ocean energy, living resources of the sea, marine pollution, and ocean management. The goal of this course is to understand the intricate relationship between human activities and our watery planet. This is a 3-unit course that meets Tuesday and Thursday in Room HU 125 on the CR main Eureka campus at 11:40 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

Week	Day - Month	Topic	Course Notes	Activities
1	26 - Aug	Ocean Basins	1	1. Nautical Charts & the EEZ
	28 - Aug		2	
2	2 - Sep	Seawater Properties	3	2. Atmospheric Circulation
	4 - Sep		4, 5	
3	9 - Sep	Waves	6	2. Ocean Circulation Research Outline Due
	11 - Sep	Tides	7	
4	16 - Sep	Coastlines	8	3. Humboldt Bay 1 st Exam
	18 - Sep	1 st Exam		
5	23 - Sep	Marine Plankton	9	4. Phytoplankton & HAB's
	25 - Sep			
6	30 - Sep	Zooplankton & Corals	10	5. Marine Food Webs
	2 - Oct			
7	7 - Oct	Ocean Fisheries	11	6. Seafood Watch
	9 - Oct			
8	14 - Oct	Marine Mammals	12	7. Video - Hunter on the Sea Wind
	16 - Oct			
9	21 - Oct	Review		2 nd Exam
	23 - Oct	2 nd Exam		
10	28 - Oct	Marine Geology	13	8. Plate Tectonics
	30 - Oct			
11	4 - Nov	Ocean Resources	14	9. Minerals of the Sea Research Paper Due
	6 - Nov	Marine Pollution	15	
12	11 - Nov	Energy from the Sea	16	10. Ocean Energy
	13 - Nov			
13	18 - Nov	Research Posters		Posters Presentation
	20 - Nov			
14	25 - Nov	Thanksgiving		No Class
	27 - Nov			
15	2 - Dec	UN Law of the Sea	17	Notebook Due
	4 - Dec			
16	9 - Dec	Final		

Office hours:

I am available on the Eureka CR campus on Tuesday and Thursday at 1:05 p.m. or by appointment in Room HU125A. You can email me to set up an alternative time to meet if you are unable to danny-oshea@redwoods.edu

Student Learning Outcomes

- 1) Use the formal methodology of the scientific method as an inquiry-based tool to critically evaluate oceanic phenomena.
- 2) Describe the transfer of energy between different elements of the Earth's geologic, oceanic, atmospheric, and biological systems.
- 3) Analyze changes to the global ocean and climate systems in the context of anthropogenic influence and societal impacts.
- 4) Describe the origin of oceanic resources (such as marine life, energy resources, and minerals) and the consequences of resource management choices.

Grading:

Your class attendance and performance on: the midterm and a final exams, group research poster presentation, in-class activities, homework assignments, and participations in the field work determine the grade you receive in this course. There are a total of 1000 points available and grades are assigned by the percentage of total points as follows:

<u>Grading Summary</u>	<u>Points</u>
Mid-term exam and Final	300
Course Notes and Illustrations	200
Online Poster Presentation	150
Research Paper	150
Activities	100
Online Quizzes	100
Total Points:	1000

Letter Grade:

1000-940=A	939-900=A-	
899-870=B+	869-830=B	829-800=B-
799-770=C+	769-730=C	729-700=C-
699-670=D+	669-600=D	<599=F

Activities, Textbooks and Lecture Notes

A packet containing the Activities is available in the CR bookstore. I will put the activities and lecture notes online so you can access this information by logging onto your "myCR" account at www.redwoods.edu. In addition, a recent copy of an introductory Oceanography textbook is recommended for use in this course and is to be used as a guide for the background reading material. New textbooks are available in the CR bookstore. You are encouraged to seek out other sources of information both in print and online formats and many resources at available in the CR library.

Mid-Term/Final Exams

There are two midterm exam, and a final exam which area each worth 100 points. The exams are multiple choice, short answer and essay questions based on the lectures, activities, homework, course reading and your own observations. The final is cumulative and will concentrate on the interpretation of the case studies discussed throughout the course. A portion of the final exam will be based on the research information presented on the posters.

Course Notes and Illustrations

A portion of your grade is based on a course notebook complete with illustrations based on in-class material. The illustrations are based on material from the texts and online material. Several illustrations will be presented in each class so it is important to attend every class. Your notebook will contain 20-30 pages of illustrations and notes that are presented during class on the topic of the day. The notes corresponding to the illustrations are available from the bookstore and on Blackboard (www.redwoods.edu). Credit is given for your illustrations and notes, which are graded during the last week of classes, before the final.

On-Line Quiz

Each week a multiple-choice on-line quiz will be posted on myCR. These quiz questions will also appear on the midterm exams. Note that the questions may be slightly different, so read exam the questions carefully. Each on-line quiz is worth 10 points.

Research Project

Each student is required to submit a 2,500 to 3,000-word research paper with 2 images with description on a topic of interest to you. The paper is to be submitted online via the myCR web site. Your information should come from your own observations, scientific articles on the subject, library and internet research. An outline is due the third week of the semester and is to be turned in online. No late work accepted.

>>>>>>>*Projects submitted without references will not receive a grade***<<<<<<<<<**

A research project on a topic of interest to you that is related to Oceanography is required from each student. For full credit your research must include:

- 1) **References** (Bibliography, Works Cited, etc.)
- 2) 5-7 pages of original (not copied and pasted) **text**;
- 3) At least one **chart** with a figure number (e.g. Figure 1) and description of the location of interest;
- 4) At least one **image, drawing or graph** complete with a figure number and description;
- 5) A minimum of three references, not including your textbook. One of your reference must be from the science journal "Science" available in the library or online through myCR under the "Library Resource" link in the Course Tools box.

We will briefly review some basic writing techniques during the course.

A **General outline** with specific research topics for your project is due Sept 11 (20 pts)

The **Final draft** is due by November 6, early submissions are encouraged. Projects are to be turned in online as a .pdf. I will post your research project on the MyCR website so other in the class students will have the chance to learn from your research. I will enable the Turnitin service so you will be able to see your similarity (to online sources) index.

>>>>>>>*Projects submitted without references will not receive a grade***<<<<<<<<<**

Poster Presentations

Your research paper will culminate with the construction of an online poster. The poster is a summary of your research and will be posted on myCR so that the students in the course can read and see your research. The poster must include a Title, an Introduction, the main Topics discussed in your research paper, a Conclusion, and References. The Title should grab the viewers attention and entice the viewer to read on. The Introduction should be a few sentences, detailing the topics addressed in the poster. The Topics are to include the data (charts, diagrams, graphs, or images) and short descriptions for each item. The Conclusion should inform the viewer of the current status, or offer solutions, to any issues raised. The References should be located at the end of the poster, and include the source of your information and can be a smaller font size. The final exam will be based in part on questions from the student posters. This does not need to be printed out.

Attendance/Participation

Participation is very important and absence will reflect negatively on your performance and final grade. Showing up late is very disruptive so please come to class on time. Likewise, if you need to leave the class early, please let me know before the class starts. Eating, drinking, texting, and chatting are social activities, and are best done outside the class. Thank-you.

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