

## Course Information

Semester & Year: **Spring 2022**

Course ID & Section #: **Ocean-10-E2058/E2059**

Instructor's name: **Danny O'Shea, M.S.**

Day/Time of required meetings: **T Th 8:30 a.m. – 9:55 a.m.**

Location: **HU 125**

Course units: **3**

## Instructor Contact Information

Office: **HU 125A**

Office hours: **11:30 a.m. – 12:30 p.m.**

Phone number: n/a

Email address: [danny-oshea@redwoods.edu](mailto:danny-oshea@redwoods.edu)

## Catalog Description

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.

## Course Student Learning Outcomes *(from course outline of record)*

- 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.

## Accessibility

College of the Redwoods is committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1<sup>st</sup> floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

## Student Support

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

## Evaluation & Grading Policy

### 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 help you understand the lecture material 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 an 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-10L, this course is transferable to CSU and UC schools as a science class with a laboratory.

### 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 Paper						150
•		Activities						150
•		Online Quiz						100
•		<u>Participation</u>						50
Total Points:				1,000				

### Exams

There are 3 exams during the semester and a cumulative final exam, each worth 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. Variations of the exam questions will also appear on the quizzes. 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. The total of all 4 exams are worth 400 points.

## Course Notes and Illustrations

During most classes notes and illustrations are drawn on the board to explain the specific topics being covered for that day. Students are required to keep a notebook as a record the date, illustrations, notes, graphs, plots and lecture material presented. Credit is given for a full and careful reproduction of the notes and illustrations including any labels and graphs, questions as well as your personal notes. Your notebook is collected the last Tuesday of class and returned the following Thursday. If you are not present that week, you are responsible to let me know and turn it in during the previous week. Your completed notebook is worth 150 points.

## Activities

Each week we will focus on a specific topic and use some of the class time to develop these concepts. You will need to spend some time out of class completing the activities. There are 10 activities throughout the course, each worth 15 points for a total of 150 points.

## On-Line Quiz

Each week a multiple-choice, on-line quiz will be posted on Canvas. Variations of the 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 for a total of 100 points.

## Research Project

Each student is required to submit a Research Outline (50 points), and a 2,500 to 3,000-word Research Paper (100 points) containing 2 images and descriptions, at least 3 reference citations on an oceanographic topic of interest to you. The paper is to be submitted online via the Canvas web site. Your information should come from your own observations, peer-reviewed scientific articles on the subject, library and internet sources. An outline is due the third week of the semester and is to be turned in online. No late work accepted.

**>>>>>>\*\*\*Projects submitted without reference citations 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) 2,500-3,000 words of your original (not copied and pasted) text (about 5-7 pages).
- 2) DO NOT use direct quotes.
- 3) 2 images: at least one map with a figure number (e.g. Figure 1) and a brief description of the location of interest; AND at least one image, drawing or graph complete with a figure number and brief description.
- 4) References (Bibliography, Works Cited, etc.); a minimum of three references, not including your textbook. One of your references must be from the science journal "Science" available in the library or online through Canvas under the "Library Resource" link in the Course Tools box.

We will briefly review some basic writing techniques early in the course.

A General outline with specific research topics for your project is due **February 3** (50 pts)

The Final draft is due by **March 31**, early submissions are encouraged. Projects are to be turned in online as a ".doc" document. I will post your research project on the Canvas 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. The Research Outline and Project are worth 150 points.

**>>>>>>\*\*\*Projects submitted without reference citations will not receive a grade\*\*\*<<<<<<<<<**

## Course Calendar

Week	Day-Month	Topic	Reading ‡	In-Class Activities	Online Quiz
1	18, 20 – Jan	Introduction	1	1) Charts, Latitude Longitude & Time	
2	25, 27 – Jan	Exploration Ocean Basins	2	2) Plate Boundaries & Marine Geology	1
3	1, 3 – Feb	Plate Tectonics	3	3) Hawai'ian Hot Spot <u>Research Outline Due</u>	
4	8, 10** – Feb	Seafloor Sediments <b>1<sup>st</sup> Exam**</b>	4 1 - 4	Exam Review	2
5	15, 17 – Feb	Water & Salinity Seawater Chemistry	5	4) Seawater Chemistry 5) Pressure, pH & CO <sub>2</sub>	
6	22, 24 – Feb	Physical Oceanography	6	6) Coriolis Effect	3
7	1, 3 – Mar	Atmospheric Circulation	7	7) Ocean Circulation	
8	8, 10** – Mar	Ocean Circulation <b>2<sup>nd</sup> Exam **</b>	5 – 7	Exam Review	4
	<b>15, 17* – Mar</b>	<b>Spring Break</b>		<b>No classes</b>	
9	22, 24 – Mar	Ocean Waves	8	8) Ocean Wave Prediction	
10	29, 31 – Mar	Tides	9	9) Ocean Tides	5
11	5, 7 – Apr	Coastlines Deltas	10	Research Paper Due	6
12	12, 14** – Apr	<b>3<sup>rd</sup> Exam**</b>	6 - 10	Exam Review	7
13	19, 21 – Apr	Life in the Ocean Plankton	11 - 12	No Classes	8
14	26, 28 – Apr	Marine Animals	13	10) Life in the Ocean Notebooks Due	9
15	3, 5 – May	Biological Oceanography	14 - 16		10
16	<b>10** – May</b>	<b>Final Exam**</b>	1-16	Final Exam	

\* Holiday – No class

\*\* Exams

‡ - Course Notes

## Admissions deadlines & enrollment policies

### Spring 2022 Dates

- *Classes begin: 1/16/22*
- *Martin Luther King, Jr Day (all campuses closed): 11/17/21*
- *Last day to add a class: 1/21/22*
- *Last day to drop without a W and receive a refund: 1/28/22*
- *Census date: 1/31/22 or 20% into class duration*
- *Lincoln's Birthday 2/12/22*
- *President's Day 2/15/22*
- *Last day to petition to graduate or apply for certificate: 3/03/22*
- *Spring Break (no classes): 3/15/22 – 3/20/22*
- *Last day for student-initiated W (no refund): 4/01/22*
- *Last day for faculty-initiated W (no refund): 4/01/22*
- *Final examinations: 5/8/22 – 5/14/22*
- *Semester ends: 5/13/22*
- *Grades available for transcript release: approximately 5/30/22*

Students who have experienced extenuating circumstances can complete & submit the **Excused Withdrawal Petition** to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available from the Admissions and Records Forms Webpage. Supporting documentation is required.

### Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. 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 website](#).

### Disruptive behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. 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 website](#).

### Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

### Setting Your Preferred Name in Canvas

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact [Admissions & Records](#) to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. It does not change your legal name in our records. See the [Student Information Update form](#).

## Canvas Information

All course material will be available on Canvas. We will review how to access the material on the first day of class.

Log into Canvas at <https://redwoods.instructure.com>

Password is your 8 digit birth date

For tech help, email [its@redwoods.edu](mailto:its@redwoods.edu) or call 707-476-4160

Canvas Help for students: <https://www.redwoods.edu/online/Help-Student>

Canvas online orientation workshop: <https://www.redwoods.edu/online/Home/Student-Resources/Canvas-Resources>

## Community College Student Health and Wellness

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Health & Wellness website](#).

[Wellness Central](#) is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email [counseling@redwoods.edu](mailto:counseling@redwoods.edu).

## Emergency procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor <https://webadvisor.redwoods.edu> and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or [security@redwoods.edu](mailto:security@redwoods.edu) if you have any questions. For more information see the [Redwoods Public Safety Page](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- 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 campus authorities.

## Del Norte Campus Emergency Procedures

Please review the [Crescent City campus emergency map](#) for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information see the [Redwoods Public Safety Page](#).

## Eureka Campus Emergency Procedures

Please review the [campus emergency map](#) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [Redwoods Public Safety Page](#) It is the responsibility of College of the Redwoods to protect life and property from the effects of emergency situations within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.

5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and/or has been deemed safe by the person in command.

## **Klamath Trinity Campus Emergency Procedures**

Please review the responsibilities of, and procedures used by, the College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction.

1. In the event of an emergency, communication shall be the responsibility of the district employees on scene.
  - a. Dial 911, to notify local agency support such as law enforcement or fire services.
  - b. If safe to do so, notify key administrators, departments, and personnel.
  - c. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
  - d. Contact Jolene Gates 530-625-4821 to notify of situation.
  - e. Contact Hoopa Tribal Education Administration office 530-625-4413
  - f. Notify Public Safety 707-476-4111.
  
2. In the event of an emergency, the responsible district employee on scene will:
  - a. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
  - b. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
  - c. Close all window curtains.
  - d. Get all inside to safe location Kitchen area is best internal location.
  - e. If a police officer or higher official arrives, they will assume command.
  - f. Wait until notice of all is clear before unlocking doors.
  - g. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
  - h. Do not leave site, unless it has been deemed safe by the person in command. Student Support Services (required for online classes)

## Student Support Services

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)
- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- [Academic Support Center](#) for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center
- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides financial assistance, support and encouragement for eligible income disadvantaged students at all CR locations.
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#)
- The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821