

## Course Information

Semester & Year: **Spring 2022**

Course ID & Section #: **Ocean-10L- E2807 / E2808**

Instructor's name: **Danny O'Shea**

Day/Time of required meetings: **T Th 10:05 a.m. – 11:25 a.m.**

Location: **HU 125**

Course units: **1**

## Instructor Contact Information

Office location: **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 exploration of the conceptual material presented in OCEAN 10. Students will acquire practical laboratory and field experience using oceanographic skills, tests, and procedures. Laboratory exercises focus on chart reading, measurements of seafloor movement, seawater chemistry, wave celerity, and microscopic analysis. Field experience includes examination of coastal geology, wave and beach processes, habitats and marine organisms. Note: This course includes field trips to various marine and coastal areas. The College does not provide transportation.

## Course Student Learning Outcomes

1. Use the formal methodology of the scientific method as an inquiry-based tool to critically evaluate oceanic phenomena.
2. Demonstrate the skills necessary to utilize basic instruments, tools, and tests used in oceanography.
3. Apply classification systems to organize and identify marine features and organisms.

## Prerequisites/co-requisites/ recommended preparation

OCEAN-10 - Introduction to Oceanography

## 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

### Grading:

Your performance on the weekly laboratories and final research project determine the grade you receive. There are 1,000 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**

<u>Grading Summary:</u>	<u>Points</u>
Laboratories	600 (40 pts each lab)
Lab notes	200 (25 pts each weekly entry)
Individual Research Project	200
Total Points:	1,000

Attendance via ConferZoom for all virtual labs and field trips are required. Oceanography 10L - Laboratory in Oceanography augments the Ocean-10 course and culminates with an individual research project of the real-time oceanographic data observed during the semester. The oceanographic observations are derived from a variety of sources currently available for the Humboldt County coastline. The laboratory develops skills reading charts, using digital data loggers, collecting field observations, and interpreting laboratory and microscope data. Time will be made available during the semester to work on the project. The product will be designed, written and completed by each student with assistance from the Oceanography faculty at College of the Redwoods.

Virtual field sampling will take place each week with trips to Trinidad pier to collect water quality data, note oceanographic observations and collect plankton samples. You will need a journal to record your observations, insights and ideas from each field trip, and to contribute to the final project. Your notebook will record the basic observations, winds, temperatures, floods, etc. that occur during the semester and be part of your final grade. This data set will be summarized and put together by each student toward the end of the semester.

Grading is based on lab attendance, virtual field trip participation, lab notebook and your contribution to the final project. In order to successfully complete the lab work you will need a notebook, calculator, ruler, and writing supplies with an optional set of colored pencils for some labs. The following is a list of topics that may be included as part of the final poster.

- Topographic and Bathymetric Profiles of the coastal hills, bay and ocean
- Environmental description of the bay, sand spit, sea cliffs, and coastal seafloor
- Beach survey the South Spit of Humboldt Bay 2 separate times in several locations
- A plot of the tides and rainfall runoff and the water clarity of the South Humboldt Bay
- Time series of the temperature, salinity, Secci depth
- Observations of sea state conditions and the marine weather
- Collection and identification of plankton samples
- Observation of abundance and change of migratory fish, mammals, birds.

The final project will be a poster of the field data, observations, events, and sample analyzed during the semester. The final product is an individual effort, but students have the option to collaborate. There are several components need to be included on the final poster: **Title, Figures, Graphs, Illustrations, Figure captions, Poster Layout, Data processing, Research, References, and Final Production.**

## Laboratory Calendar

Week	Day-Month	Laboratory	Activities / Topics
1	18, 20 – Jan	1) Latitude	Nautical Charts
2	25, 27 – Jan	2) Longitude, Time & Bathymetry	Longitude & T time
3	1, 3 – Feb	3) Coastal Geology	Beach survey
4	8, 10 – Feb	4) Plate Tectonics Magnetic Reversals	Plate Tectonics
5	15, 17 – Feb	5) Coastal Marine Sediments	Grain Size Analysis
6	22, 24 – Feb	6) Marine Weather	Marine Weather Charts
7	1, 3 – Mar	7) Water Masses & Ocean Circulation	Water Stratification
8	8, 10 – Mar	8) Ocean Waves	Ocean Wave Prediction
	<b>15, 17* – Mar</b>	<b>SPRING BREAK</b>	No Laboratory
9	22, 24 – Mar	9) Tsunami	Tsunami Travel Time
10	29, 31 – Mar	10) Seiche	Waves in enclosed basins
11	5, 7 – Apr	11) Tides and Amphidromes	Tides
12	12, 14 – Apr	12) Estuaries	Estuaries
13	19, 21 – Apr	13) Primary Producers	Phytoplankton ID
14	26, 28 – Apr	14) Zooplankton and Benthos	Zooplankton
15	3, 5 – May	15) Marine Adaptations	Ocean Animals
16	10 – May	Final Research Project Due	

\* **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