CR COLLEGE OF THE REDWOODS   OCEAN-10-E8705/E8706-2020S Intro to Ocean

Course Information

Semester & Year: Spring 2020
Course ID & Section #: OCEAN-10-E8705/E8706-2020S Intro to Oceanogrpahy
Instructor's name: Danny O'Shea
Day/Time: T Th 08:30 a.m. – 10:05 a.m.
Location: HU125
Number of units: 3

Instructor Contact Information

Office location HU125A
Office hours: T Th 11:30- 13:00
Phone number: n/a
Email address: danny-oshea@redwoods.edu

Required Materials

Textbook title: Introduction to Oceanography
Edition: any recent edition (since c.a. 2008)
Author: n/a
ISBN: n/a
Other requirement: [materials, equipment or technology skills]

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.

Evaluation & Grading Policy

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 report   150
- Activities   150
- Online Quiz   100
- Participation   50
- Total Points: 1,000

Prerequisites/co-requisites/ recommended preparation

ENGL-150

Institutional Policies

Special accommodations statement *(*required for online classes)*

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 accommodations, please see me or contact [Disability Services and Programs for Students](). Students may make requests for alternative media by contacting DSPS based on their campus location:
- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

Student Access *(*required for online classes)*

These standards are required by federal regulation. Students will have access to this course that complies with the Americans with Disabilities Act of 1990 (ADA), Section 508 of the Rehabilitation Act of 1973, and College of the Redwoods policies. Course materials will include a text equivalent for all non-text elements; videos will include closed captioning, images will include alt-tags, hyperlinks will use descriptive/meaningful phrases instead of URLs and audio files will include transcripts. All text will be formatted for use with screen readers and all course materials will be understandable without the use of color.

Students who discover access issues with this class should contact the instructor.

Admissions deadlines & enrollment policies

Spring 2020 Dates
- *Classes begin: 1/18/20*
- *Martin Luther King Jr. Day (all-college holiday): 1/20/20*
- *Last day to add a class: 1/24/20*
- *Last day to drop without a W and receive a refund: 1/31/20*
- *Census date: 2/3/20 or 20% into class duration*
- *Lincoln's Birthday (no classes): 2/14/20*
- *Last day to petition to file P/NP option: 2/14/20*
- *President's Day (all-college holiday): 2/17/20*
- *Last day to petition to graduate or apply for certificate: 3/05/20*
- *Spring break (no classes): 3/16/20-3/21/20*
- *Last day for student-initiated W (no refund): 4/3/20*
- *Last day for faculty initiated W (no refund): 4/3/20*
- *Final examinations: 5/9/20-5/15/20*
- *Semester ends: 5/15/20*
- *Grades available for transcript release: approximately 6/1/20*

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.

Class participation and Attendance policy

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.

Course Notes and Illustrations

Most classes will include notes and illustrations that 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, all illustrations, notes, graphs, plots and lecture material presented. Credit is given for careful reproduction of the notes and illustrations including any labels and graphs, questions as well as your personal notes. A complete notebook is worth 150 points. 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 turn it in the previous week.

Activities

Each week we will focus on a specific topic, and use some of the class time to develop these concepts. You may 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 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 Canvas 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) 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 reference 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 September 12 (20 pts)

The Final draft is due by November 7, 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 Turniitin service so you will be able to see your similarity (to online sources) index.

<div align="center">>>>>>>>>>***Projects submitted without references will not receive a grade***<<<<<<<<<</div>

Attendance/Participation

Participation is very important and absence will reflect negatively on your performance and final grade. If you miss more than 3 class periods you will be dropped from this class. Showing up late is 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.

Communication Guidelines

Consider including: response times to emails and messages, availability, times you will not be checking email or messages, your preferred means of contact and any other preferences, such as specifics of email subject lines, encouragement to attend office hours, or similar. You may also want to include a statement on student privacy rights, including the legal rights of students that prevent information from being disclosed to anyone (including parents/guardians) without the student's prior written consent.

Policies - additional

Describe additional policies you have including late work/make-ups, tardiness, and use of personal technological devices.

Information for this Class   Class schedule

Week	Day-Month	Topic	Chapter*	In-Class Activities	Online Quiz
1	21 - Jan 23 - Jan	Introduction	1	1) Charts, Latitude Longitude & Time	
2	28 - Jan 30 - Jan	Exploration Ocean Basins	2	2) Plate Boundaries & Marine Geology	1
3	4 - Feb 6 - Feb	Plate Tectonics	3	3) Hawai'ian Hot Spot **Research Outline Due**	2
4	11 - Feb 13 - Feb	Seafloor Sediments 1st Exam	4 1 - 4	Exam Review	
5	18 - Feb 20- Feb	Water & Salinity Seawater Chemistry	5	4) Seawater Chemistry 5) Pressure, pH & CO_2	3
6	25 - Feb 27 - Feb	Physical Oceanography	6	6) Coriolis Effect	
7	3 - Mar 5 - Mar	Atmospheric Circulation	7	7) Ocean Circulation	4
8	10 - Mar 12 - Mar	Ocean Circulation 2nd Exam	5 - 7	Exam Review	
9	17 - Mar 19 - Mar	Spring Break		No classes	
10	24 - Mar 26 - Mar	Ocean Waves	8	8) Ocean Wave Prediction	5
11	31 - Mar 2 - Apr	Tides	9	9) Ocean Tides **Research Paper Due**	6
12	7 - Apr 9 - Apr	Coastlines Deltas	10		7
13	14 - Apr 16 - Apr	3rd Exam	6 -10	Exam Review	
14	21 - Apr 23 - Apr	Life in the Ocean Plankton	11		8
15	28 - Apr 30 - Apr	Marine Animals	12	10) Life in the Ocean	9
16	5 - May 7 - May	Biological Oceanography	13, 14 15		10
	12 - May	**Final Exam**	**1 - 16**	**Final Exam 08:30-10:30 a.m.**	

Recommended textbooks & other materials

Any recent Introductory Oceanography textbook of your choice is required to augment the in-class lectures and activities. Any recent (since 2008) edition of an "Introductory Oceanography" textbook will be suffice for this course. A few of the many editions I can recommend include:

--> Investigating Oceanography by Keith A. Sverdrup and Raphael M. Kudela
Publication Date: 2013 | ISBN-10: 0078022916 | ISBN-13: 978-0078022913

--> Oceanography and Marine Biology: An Introduction to Marine Science by David W. Townsend Publication Date: 2012 | ISBN-10: 0878936025 | ISBN-13: 978-0878936021

--> Essentials of Oceanography (9th Ed.) Alan P. Trujillo & Harold V. Thurman
Publication Date: 2007 | ISBN-10: 0132401223 | ISBN-13: 978-0132401227

--> An Introduction to the World's Oceans by Keith Sverdrup and Virginia Armbrust (9th Ed.)
Publication Date: 2006 | ISBN-10: 0073254835 | 13:978-0073254838

--> Oceanography: An Invitation to Marine Science by Tom Garrison (5th Ed.)
Publication Date: 2004 | ISBN-10: 0534408877 | ISBN-13: 978-053440887

--> Open University also has an excellent series of Oceanography books that are more detail and cover specific topics including:
- The Ocean Basins: Their Structure and Evolution
- Seawater: Its Composition, Properties and Behaviour
- Ocean Circulation
- Waves, Tides and Shallow-water Processes
- Biological Oceanography: An Introduction
- Marine Biogeochemical Cycles

Proctoring (*required for *online courses*)

If you need to take and exam late (or early) you will need to take the exam in the Learning Resource Center located in the Library. You can also make up an exam, prvided you contacted the professor before the exam is given in HU 125A. More assistance is available if you have limited local resources or mobility issues.

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

You will need to check in on Canvas at the beginning of every week. Lecture slides, activities, quizzes, exam reviews and web sites of intererest are availanle though Canvas.

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

Password is your 8 digit birth date
For tech help, email 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

Technology skills, requirements, and support (required for online classes)

Tech equipment and skills are required for student success, and of equal importance as required textbooks and materials,

Students can obtain a free Office 365 license (includes Word, Excel, PowerPoint and more) with a valid CR email.

Necessary Computer Skills **-** [instructor: identify the computer skills necessary for students to succeed in your course.]

Technology Requirements (computer, other hardware, and software) **-** [instructor: identify the computer requirements and any hardware or software necessary for students to succeed in your class.]

Technology Support **-** [instructor: identify your role in providing technology support]

Before contacting Technical Support please visit the Online Support Page. For password issues with Canvas, Web Advisor or your mycr.redwoods.edu email, contact its@redwoods.edu or call 707-476-4160 or 800-641-0400 ext. 4160 between 8:00 A.M. and 4:00 P.M., Monday through Friday.

Gender-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 gender-inclusive and non-sexist to affirm and respect how people describe, express, and experience their gender. Just as sexist language excludes women's experiences, non-gender-inclusive language excludes the experiences of individuals whose identities may not fit the gender binary, and/or who may not identify with the sex they were assigned at birth. Gender-inclusive/non-sexist language acknowledges people of any gender (for example, first year student versus freshman, humankind versus mankind, etc.), affirms non-binary gender identifications, and recognizes the difference between biological sex and gender expression.

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.

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 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.

Klamath Trinity 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 on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
4. If safe to do so, notify key Klamath-Trinity Instructional Site administrators and personnel.
5. Do not leave site, unless it is necessary to preserve life and/or has been deemed safe by the person in command.
6. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.

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 and Advising offers academic support and includes academic advising and educational planning

Learning Resource Center includes the following resources for students

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

- The Honors Program helps students succeed in transferring to a competitive four-year school.