EnvSc-10 Syllabus and Course Schedule

Syllabus for ENVSC-10 (Intro to Environmental Science)

Course Information:

- Semester & Year: Spring 2023
- Course ID & Section #: ENVSC-10 D5021
- Instructor's name: Christopher Callahan
- Day/Time: Tuesday/Thursday 12:30pm to 3:40pm
- Location: DM 23/DM 26
- Number of units: 4.0

Instructor Contact Information

- Office location: DM 27
- Office hours: Tues/Thur 3:40pm to 4:30pm or by appointment
- Phone number: 707-465-2379
- Email address: christopher-callahan@redwoods.edu

Required Materials

- Textbook Title: *Environmental Biology*
- Edition: online
- Author: Open Oregon Educational Resources
- ISBN: N/A

Catalog Description

Introduction to environmental issues from a scientific perspective, focusing on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the role of science in finding sustainable solutions. Topics include ecological principles, biodiversity, climate change, sustainability, renewable and non-renewable energy, water resources, air and water pollution, and solid waste management. Note: Field trips are required and transportation is not provided.

Course Student Learning Outcomes

1. Apply the process of science to analyze major environmental issues at a variety of scales, identify potential solutions for these issues, and evaluate the viability of these solutions.
2. Analyze and interpret quantitative data and visual representations of data describing an environmental issue.
3. Describe relationships between human actions and environmental issues and predict potential outcomes of these interactions.
4. Analyze and interpret human influences on an ecosystem in the field.

Evaluation & Grading Policy

Assignment		Points
Lecture Exams	3 exams @ 100 points each	300
Syllabus Quiz	must be completed by 1/23	5
Chapter Quiz	10 quizzes @ 10 points each	100
Lab Assignments	various assignments	150
Pressed Plant Collection		50
iNaturalist Observations		50
Witness for the Whales		25
Environmental Ethic		50
Gap in Nature		50
Biodiversity Assessment Poster		100
	Total Points Attainable:	**880**

If you receive 95-100% of total points you will receive an A; 90 to 94% earns an A-; 87-89% earns a B+; 84-86% earns a B; 80-83% earns a B-; 75-79 earns a C+; 70-74 earns a C; 60-69% earns a D;

and 59% or below earns an F. There is no 'curving' or extra credit opportunities for missed work.

Prerequisites/co-requisites/ Recommended Preparation

Prerequisite: N/A

Pre- or Co-requisite: N/A

Student Feedback Policy

All work will be graded within two weeks of submission for evaluation. Grades will be posted on Canvas and will not be communicated through email. If you would like to discuss grades you'll have to set up an appointment with me.

Institutional Policies

Accessibility

Students will have access to online course materials that comply with the Americans with Disabilities Act of 1990 (ADA), Section 508 of the Rehabilitation Act of 1973, and College of the Redwoods policies. Students who discover access issues with this class should contact the instructor.

College of the Redwoods is also 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** ⤷ **(http://www.redwoods.edu/dsps)** (DSPS). 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

During COVID19, approved accommodations for distance education classes will be emailed to the instructor by DSPS. In the case of face to face instruction, please present your written accommodation request to your instructor at least one week before the first test so that necessary arrangements can be made. Last-minute arrangements or post-test adjustments cannot usually be accommodated.

Support for online learners during COVID-19

In response to COVID-19, College of the Redwoods moved the majority of its courses online to protect health and safety. As the faculty and students adjust to this change, clear communication about student needs will help everyone be successful. Please let me know about any specific challenges or technology limitations that might affect your participation in class. I want every student to thrive.

Admissions deadlines & enrollment policies

Spring 2023 Dates

- *Classes begin: 01/14/23*
- *Martin Luther King's Birthday (all campuses closed): 01/16/23*
- *Last day to add a class: 01/20/23*
- *Last day to drop without a W and receive a refund: 01/27/23*
- *Census date: 01/30/23 or 20% into class duration*
- *Last day to petition to file P/NP option: 02/10/23*
- *Lincoln's Birthday (all campuses closed): 02/17/23*
- *President's Day (all campuses closed): 02/20/23*
- *Last day to petition to graduate or apply for certificate: 03/02/23Presi*
- *Spring Break (no classes): 03/13/23 – 03/18/23*
- *Last day for student-initiated W (no refund): 03/31/23*
- *Last day for faculty-initiated W (no refund): 03/31/23*
- *Final examinations: 05/06/23 – 05/12/23*
- *Commencement: 05/15/23*
- *Semester ends: 05/12/23*
- *Grades available for transcript release: approximately 05/26/23*

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 (https://redwoods.instructure.com/courses/15098/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=654705)**) 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** ▷ **(https://www.redwoods.edu/catalog)** and on the **College of the Redwoods website** ▷ **(https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies)** .

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 (https://redwoods.instructure.com/courses/15098/pages/student-code-of-conduct-and-disciplinary-procedures?module_item_id=654705)**) 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** ▷ **(https://www.redwoods.edu/catalog)** and on the **College of the Redwoods website** ▷ **(https://www.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies)**

Policies for this Class

Class participation

Lecture Exams: There are three lecture exams including the lecture final. Exams are not comprehensive and will only cover new material.

Weekly Chapter Quizzes: Each week you will take a quiz covering that week's lecture material. We will not have a quiz on the week we take a lecture exam.

On-campus field trips/lab activities: You will be required to engage with the course and participate in outdoor learning experiences. All outdoor labs are scheduled to be on campus. We may do some optional off campus field trips.

Pressed Plant Project: You will collect and press local plant specimens from the community forest. More information will be given in class.

iNatrualist Observations: You will use iNaturalist to observe 100 species over the course of the semester.

Witness for the Whales activity: We will molecularly identify unknown whale products to determine which species are harvested in the clandestine meat-markets of Japan and Korea. Details will be forthcoming on CANVAS.

Environmental Ethic paper: We will watch the movies The Cove and Superfish Bluefin Tuna, and read two essays on human consumption of tuna and dolphin meat. You will synthesize these ideas into your own environmental ethic in a written essay. Details will be forthcoming on CANVAS.

Gap in Nature presentation/paper: You will research an animal that has gone extinct in the last 500 years. You will submit a written species account along with a 3-5 minute presentation in lab on your findings.

Biodiversity Assessment: You will work with a partner to create a poster of class findings of biodiversity found on campus. More information will be given in class.

Attendance Policy

Attendance is expected and required. This is not a self-paced course and you will have assignments due each week. You must complete assignments on time. No late assignments will be accepted and no extra credit opportunities will be given.

Academic Integrity and Honor Pledge

As a College of the Redwoods student enrolled in an online class you are expected to conduct yourself with integrity. Please review the **Academic Integrity (https://redwoods.instructure.com/courses/15098/pages/academic-integrity?module_item_id=654706)** page and then complete the **Syllabus Quiz (https://redwoods.instructure.com/courses/15098/quizzes/81288?module_item_id=654708)** by Tuesday, August 23rd at midnight.

Information for this Class

Recommended textbooks & other materials

Will use a free, open-source text book that will be available on Canvas or through the following link: **Environmental Biology (https://openoregon.pressbooks.pub/envirobiology/front-**

matter/introduction/)

You can also purchase a hard copy of the text from link below (~$20) if you prefer, but it is not required. **https://www.lulu.com/shop/matthew-fisher/environmental-biology/paperback/product-15vm78v6.html?q=environmental+biology&page=1&pageSize=4 (https://www.lulu.com/shop/matthew-fisher/environmental-biology/paperback/product-15vm78v6.html?q=environmental+biology&page=1&pageSize=4)**

Please refer to the **Online Orientation Letter (https://redwoods.instructure.com/courses/15098/pages/biol-2-online-orientation-letter)** for more details.

Preferred Name in Canvas

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact **Admissions & Records** ⮞ **(https://www.redwoods.edu/admissions/Forms)** 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** ⮞ **(https://www.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Update.pdf)** .

Canvas Information

Please see **Online Orientation Letter (https://redwoods.instructure.com/courses/15897/pages/envsc-10-online-orientation-letter-2?module_item_id=721398)** for more information

- Log into Canvas at **https://redwoods.instructure.com (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

Technology skills, requirements, and support

Please see **Online Orientation Letter (https://redwoods.instructure.com/courses/15897/pages/envsc-10-online-orientation-letter-2?module_item_id=721398)** for more information

- 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** ⮞ **(https://www.redwoods.edu/Services/Office365)** (includes Word, Excel, PowerPoint and more) with a valid CR email.
- Before contacting Technical Support please visit the **Online Support Page** ⮞ **(http://www.redwoods.edu/online/Help)** .

- For password issues with Canvas, Web Advisor or your mycr.redwoods.edu email, contact **its@redwoods.edu (mailto: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.

Student Support Services

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

- **CR-Online ⤷ (http://www.redwoods.edu/online)** (Comprehensive information for online students)
- **Library Articles & Databases ⤷ (https://redwoods.libguides.com/az.php)**
- **Canvas help and tutorials ⤷ (http://www.redwoods.edu/online/Canvas)**
- **Online Student Handbook ⤷ (http://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf)**

Counseling and Advising ⤷ (http://www.redwoods.edu/counseling/) offers academic support and includes academic advising and educational planning

Learning Resource Center includes the following resources for students:

- **Academic Support Center ⤷ (http://www.redwoods.edu/asc)** for instructional support, tutoring, and learning resources.
- **Library Services ⤷ (https://www.redwoods.edu/library)** to promote information literacy and provide organized information resources.
- Multicultural & Diversity Center
- Math Lab & Drop-in Writing Center

Special programs are also available for eligible students include

- **Extended Opportunity Programs & Services (EOPS) ⤷ (http://www.redwoods.edu/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 ⤷ (https://www.redwoods.edu/trio/eureka)** or in **Del Norte ⤷ (https://www.redwoods.edu/delnorte/TRiO)**
- The **Veteran's Resource Center ⤷ (https://www.redwoods.edu/vets)** 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** ⤷ **(https://www.redwoods.edu/Honors/)** helps students succeed in transferring to a competitive four-year school.

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 (https://www.cccstudentmentalhealth.org/health-wellness-for-students/)** .
- **Wellness Central** **(https://ccconlineed.instructure.com/courses/1895?cf_id=2248)** 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** ⤷ **(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** ⤷ **(https://www.redwoods.edu/publicsafety)** .

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.

Course Schedule

Each week a new learning topic will be available in the course modules. Topics are arranged by lecture exam (5 topics per exam). Each week will begin on Tuesday and end the following Monday at midnight. This schedule is subject to change with fair notice.

Week	Lecture	Lab	Online Assignments Due
1	**Tuesday 1/17** Topic 1: Intro to Environmental Science Chapter 1	**Thursday 1/19** Lab: Our Outdoor Campus	**Monday 1/23** All online assignments due at midnight
2	**Tuesday 1/24** Topic 2: Environmental Ethic Chapter 1	**Thursday 1/26** Movie: Hot Tuna Movie: The Cove	**Monday 1/30** All online assignments due at midnight
3	**Tuesday 1/31** Topic 3: Matter and Energy Chapter 2	**Thursday 2/2** Lab: Citizen Science and iNaturalist BioBlitz Survey: Plants/Mushrooms	**Monday 2/6** All online assignments due at midnight
4	**Tuesday 2/7** Topic 4: Ecosystems Chapter 3	**Thursday 2/9** Lab: eBird Movie: The Messenger BioBlitz Survey: Birds	**Monday 2/13** All online assignments due at midnight

5	**Tuesday 2/14** Topic 5: Community Ecology Chapter 4	**Thursday 2/16** Lab: Serengeti Rules Movie: Serengeti Rules BioBlitz Survey: Animal Surveys	**Monday 2/20** All online assignments due at midnight
6	**Tuesday 2/21** **Lecture Exam I** Topic 6: Conservation Biology Chapter 5	**Thursday 2/23** Lab: Butterfly Lab	**Monday 2/27** All online assignments due at midnight
7	**Tuesday 2/28** Topic 7: Witness for the Whales Assigned Readings	**Thursday 3/2** Lab: DNA Surveillance	**Monday 3/6** All online assignments due at midnight
8	**Tuesday 3/7** Topic 8: Animal Extinctions Assigned Readings	**Thursday 3/9** Lab: Gap in Nature Movie: Racing Extinction	**Monday 3/13** All online assignments due at midnight
9	**Tuesday 3/14** Spring Break - No Class Meeting	**Thursday 3/16** Spring Break - No Class Meeting	

10	**Tuesday 3/21** Topic 9: Environmental Toxicology Chapter 6	**Thursday 3/23** Lab: Zoonotics and Pandemics	**Monday 3/27** All online assignments due at midnight
11	**Tuesday 3/28** **Lecture Exam II** Topic 10: Fresh Water, Ocean, and Coasts Chapter 7	**Thursday 3/30** Lab: Water Sampling Lab	**Monday 4/3** All online assignments due at midnight
12	**Tuesday 4/4** Topic 11: Food Security Chapter 8	**Thursday 4/6** Lab: Bat Surveys	**Monday 4/10** All online assignments due at midnight
13	**Tuesday 4/11** Topic 12: Agriculture Chapter 9	**Thursday 4/13** Lab: Food Forest	**Monday 4/17** All online assignments due at midnight

14	**Tuesday 4/18** Topic 13: Atmospheric Science Chapter 10	**Thursday 4/20** BioBlitz: Final Diversity Surveys	**Monday 4/24** All online assignments due at midnight
15	**Tuesday 4/25** Topic 14: Renewable Energy Chapter 11	**Thursday 4/27** Lab: Biodiversity Assessment	**Monday 5/1** All online assignments due at midnight
16	**Tuesday 5/2** Topic 15: Semester Wrap-up Lab: Biodiversity Assessment	**Thursday 5/4** Lab: Gap in Nature Presentations Lab: Biodiversity Assessment Presentations	**Monday 5/8** All online assignments due at midnight
17	**Tuesday 5/2** **Final Lecture Exam**		