

ENVS 202 Introduction to Environmental Studies: Natural Sciences
Spring 2015 Information Sheet and Syllabus
<https://canvas.uoregon.edu>

Instructors	email	office hours	location
Alan Dickman	adickman@uoregon.edu	Mon/Wed 1:20 - 1:40 PM Wednesday 2:00 to 3:15 PM	Lecture hall 302 Pacific
Sonja Kolstoe	skolstoe@uoregon.edu	Tuesday 2 to 3PM	428 PLC
Dan Shtob	dshtob@uoregon.edu	Thursday Noon to 2PM	47C Columbia
Chris Torres	cgt@uoregon.edu	Thursday 11 AM to Noon	47A Columbia

Lecture: Monday and Wednesday from Noon to 1:20 PM in room 282 Lillis crn 32112

Discussions

time	room	GTF	CRN
Thursday 9AM	142 Columbia	Dan Shtob	32114
Thursday 10AM	142 Columbia	Dan Shtob	32115
Thursday 11AM	142 Columbia	Sonja Kolstoe	32116
Thursday Noon	142 Columbia	Sonja Kolstoe	32117
Thursday 1 PM	142 Columbia	Sonja Kolstoe	32118
Friday 9 AM	9 Pacific	Chris Torres	36713
Friday 11AM	9 Pacific	Chris Torres	36715

Overview This course is part of the three term core sequence in Environmental Studies and is required for Environmental Studies (but not Environmental Science) majors. It is an introductory course, designed for freshmen and sophomores, and satisfies university general education breadth requirements for natural sciences. ENVS 201, 202, 203 may be taken in any order.

Goals and learning objectives. By the end of the term, you should be able to:

- describe the value and limitation of science in understanding environmental issues
- explain how scientific research is done and what motivates some scientists
- identify causal relationships, feedback loops, and construct concept maps
- interpret and analyze information presented in graphical format
- talk or write in an informed way about several environmental issues including:
 - environmental and ecological history of the Willamette Valley
 - ecosystem change, species diversity, keystone species, indicator species
 - population ecology models and their application to humans and wildlife
 - Earth's atmosphere, climate change, and human impacts on climate change
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- have confidence in your ability to make decisions consistent with your knowledge and values about one environmental issue that is of special interest to you

Important Dates

- Exams: April 15, May 6; **and Tuesday, June 9, at 10:15 AM**
- Homework due in section April 9/10, April 23/24, and at start of lecture on May 4
- CCC reflection paper: due in section the week after your event
- Annotated Bibliography due in lecture May 13
- Project Presentations: May 21, 22 and May 28, 29
- **Final Exam: Tuesday, June 9, at 10:15 AM**

Dates	Lecture Topic	Assigned Readings	Assignments/Tests	Section Activities
Week 1: 3/30 4/1 4/2, 3	1. What is Environmental Science? 2. Environmental History of the PNW	Bright Jutonen et al. Cudmore, Waring		Concept maps, causal maps Issue project introduction
Week 2: 4/6 4/8 4/9, 10	3. Evolution and Ecology of Salmon 4. Salmon and Ecosystem Change	Lichatowich Macneale et al.	Homework 1 CCC: Friday, 4/10 1-5 PM Nearby Nature	Finding, evaluating resources Bring a laptop if possible
Week 3: 4/13 4/15 4/16, 17	5. . Ecosystem Health and Restoration Rob Hoshaw Long Tom W.C. 6. Introduction to Biodiversity: definitions, measurement, and meaning. Quiz	Kolb et al. USDA PNWRS GTR Habitable Planet, Unit 9	Quiz (Lectures 1-5)	Campus Bioswale and Sustainability Tour
Week 4: 4/20 4/22 4/23, 24	7. Keystone and Indicator Species Meagan Campbell and special guests 8. Invasive Species: Lauri Holts, City of Eugene (Ludwigia)	Ostfeld, Milius Davis Schlaepfer et al.	Homework 2 includes 2 AB entries CCC Saturday 4/25 1 to 5 PM Alton Baker	Discussion / Debate Invasive species readings
Week 5: 4/27 4/29 4/30,5/1	9. Population Ecology models 10. Human Demography	Hansen (preview) UNEP PRB	CCC Saturday, 5/2 9AM to 3PM LTWC	Population simulator exercise Bring a laptop if possible
Week 6: 5/4 5/6 5/7 , 8	11. Go over HW 3 problems, review for midterm; go over population simulator. 12. Midterm (Lectures 1-11)	Hansen (as resource)	Homework 3 population problems Due in lecture on 5/4 Midterm CCC Saturday, 5/9 9AM to Noon Alton Baker	Issues groups meet Presentation tips and rubric
Week 7: 5/11 5/13 5/14, 15	13. Agriculture resources: soil, water, nutrients 14. Fertilizers, pollution, sustainable agriculture	HP Unit 7 Milius, Raloff, Harris	Final Annotated Bibliography due in lecture on Wednesday	Discuss Readings Presentation planning
Week 8: 5/18 5/20 5/21, 22	15. Aquaculture, Fisheries, and Oceans Optimal Yield in Fisheries 16. Atmosphere, weather, climate	Cagauan et al. World Ocean Review Habitable Planet Unit 2	Presentations	Project Presentation Session I
Week 9: 5/27 5/28, 29	17. No Class. Remember those we've lost 18. climate change research Scott Bridgham	Habitable Planet Unit 12	Presentations CCC Friday 5/29 1 to 5 PM UO	Project Presentation Session II
Wk 10: 6/1 6/3 6/4, 5	19. climate change research, continued 20. Hope and Optimism special guests	Witze Lee		Review for Final Catch-up presentations
10:15 AM, Tuesday, June 9				
			Final Exam	10:15 AM Tuesday

Grading Philosophy and Criteria

If you get 90% or more of the total possible points, you will receive a grade of A- or higher; if you get 80% or more you will receive a grade of B- or higher; 70% or more ensures a grade of C- or higher. What does this mean for you? I don't grade you by comparing your work to the others in the class (that is what I think of as grading on a curve.) If you do excellent work, in our judgment, you will get an A, good work earns a B, satisfactory work earns a C. Course grades are based on performance, not on effort, but it is extremely rare that anyone who comes to class regularly, does the reading, and puts a serious effort into studying fails. The number of points needed for a given grade (e.g. the C - cutoff) may be lowered, but will not be raised (this is what students often think of as grading on a curve). Courses applied to the Environmental Studies major and minor must be taken for a letter grade.

Course component	Percent of total grade
Quiz	8%
Midterm	20%
Final Exam	25%
Homework	12%
Term Project	20%
(10% each for bibliography and presentation)	
CCC project and write-up	5%
Participation and Engagement	10%
Total	100%

Classroom Conduct.

Please talk to Alan or to your GTF as soon as possible if you have questions about what is expected of you in this class or how you will be graded.

We expect everyone to follow University rules and guidelines for behavior. Academic dishonesty, which includes cheating and plagiarism, is a serious offense and will be treated according to the guidelines in the [student conduct code \(located at uodocs.uoregon.edu\)](http://uodocs.uoregon.edu) This doesn't mean you shouldn't talk with other students about what you are thinking or writing; it does mean that when you write something, it should be in your own words, not copied from someone else. Information about a common form of academic misconduct, plagiarism, is available at <http://library.uoregon.edu/guides/plagiarism/students/index.html>

We ask that everyone do their best to be intellectually honest while also being respectful of personal differences. We welcome and encourage intellectual controversy-- it is essential to real learning. At the same time, we ask that everyone respect the rights of others to hold different opinions, even as we challenge the ideas supporting those opinions. The grade you earn will be a reflection of the quality of work you have done, but not of you as a person.

Out of respect for other students, you should plan to arrive at class on time and stay until class is over. If, on occasion, you do arrive late, please be considerate of others and enter in such a way that you don't disturb other students. If you need to leave early, please sit near an exit so that you can leave without disrupting the class. We ask that you not interfere with the ability of other students to learn by making noise when others (instructors or classmates) are speaking or working. Cell phones should not be used in class. Failure to follow these guidelines may lead to a lowered participation score.

Crises happen. If you have problems that interfere with your ability to do the work in this class, please let us know promptly. We are willing to make special arrangements when the need is real **and** when you have done your best to deal with the situation in a timely manner. The University of Oregon Counseling Center, provides students with confidential consultation 24 hours a day, 7 days a week. From 8-5 Monday through Friday you will be connected with the front desk, and after hours, the same number connects to their support line. **Their number is 346-3227.** Students often believe that their issues are not "severe" enough for them to call, but at the Counseling Center, there is no problem too small.

Discussion Sections: Discussion sections help you to practice important skills, such as public speaking, respectful and active listening, considering and evaluating other people's viewpoints, and formulating your own viewpoints. Attendance will be taken for the discussion sections and will count towards your participation grade. You must attend the section for which you are registered. Homework and other class assignments will be turned in, discussed, and returned in discussion section.

Readings: Assigned readings from current journal articles will be made available in pdf format or weblinks on the Canvas course website: <https://canvas.uoregon.edu>

Participation and Engagement: Ten percent of your grade is attributed to participation and engagement. Attendance and active involvement in sectionals are primary ways to earn participation points. Participation is not simply measured by how vocal you are, however. Other ways to participate include sharing news stories or events with classmates. **Missing class (lecture or discussion), arriving late, leaving early, talking, texting, web surfing during class, or otherwise not participating fully will lead to a reduction in your participation grade.** A couple of times during the term we will have guest scientists come to talk about their work. These are important parts of the course that cannot easily be made up. Don't miss these and above all, don't tune out when a guest comes to talk to us.

Homework: Twelve percent of your grade comes from written homework assignments. You can think of these as take-home exams of sorts. It is acceptable to talk to others about the homework, but **you must write your own answers.** The homework is also intended to help to prepare you to do well on the in-class exams. Homework is due at the start of your discussion section; we will not accept late work. Answers to some homework questions will be posted after the last discussion section meets but before the exam. Homework assignments and answer keys will be found at : <https://canvas.uoregon.edu>

Exams: Exams will often ask you to apply, synthesize, or evaluate information. This is harder than simply recalling facts. Make-up exams will not be given, so note the dates of the exams carefully and don't make plans to be out of town on any of those dates. The final exam will be cumulative. Notice that **the final exam is scheduled for Tuesday of finals week at 10:15 AM and cannot be taken earlier.**

Term project: The term project allows you to explore a particular issue in more depth. There are two components to the project: an annotated bibliography done individually, and a presentation to your classmates done in groups of three. A separate handout will describe the project more fully.

Classroom Community Connection (CCC): This project is designed to place you in the community to see how one of the topics we are learning about is applied in the real world. You will do a short service project (part of a day) and write a reflection paper about your work and its relation to environmental science concepts. A separate information sheet will provide details.

How to do well in this course:

- Attend all class functions (lectures and discussions), arrive on time, stay engaged, turn off electronic devices not related to academic work.
- Follow policies set by your GTF regarding attendance, participation, office hours, email.
- Spend several hours each week outside of class studying. Suggested study techniques:
 - Do the assigned reading in advance or at least skim through the material so that you know what is there and can go back and read in more depth later.
 - Make use of the course web page and the lecture notes and outlines on it, but do not try to use these as a replacement for attending class.
 - Ask questions in lecture. Ask questions in discussion. Ask questions in office hours
 - Get together with someone else in the class at least once a week to study. Keep the big picture in mind by asking yourself how what you are learning relates to current environmental issues
- Don't believe everything you hear or read; back up your opinions with credible evidence and logic.

Other resources and forms of support *

Inclusive Access: The University of Oregon works to create inclusive learning environments. If you experience difficulty in this course for any reason, please don't hesitate to contact Alan. It is especially important that you notify me within the first two weeks of the term if aspects of the instruction or course design present obstacles to your active participation or prevent you from fully demonstrating your abilities. Such obstacles may include, but are not limited to issues concerning physical access and mobility, physical or mental health and well-being, and academic learning. I need to know about such issues so that we can discuss necessary approaches to ensure your full participation and facilitate your learning process. The university offers a wide range of services to support students in their efforts to learn and meet course requirements, including the following:

- *Accessible Education Center (AEC):* The AEC is dedicated to facilitating and supporting accessible education through active collaboration with students, faculty, staff, and the community. The AEC works to create and sustain physical, curricular, and informational environments that are informed by and response to the diverse characteristics and experiences of students with disabilities and variations of ability. Web: <http://aec.uoregon.edu/> - Phone: 541-346-1155
- *University Counseling and Testing Center (UCTC):* The UCTC provides comprehensive mental health care and testing services to the University of Oregon campus. The primary mission of the UCTC is to provide quality clinical/therapeutic services, psychological testing and assessment, psychoeducational workshops, and outreach as well as emergency services. Web: <http://counseling.uoregon.edu/dnn/> - Phone: 541-346-3227
- *Teaching and Learning Center (TLC):* TLC provides numerous resources (including courses, workshop, tutoring, and math and writing labs) to help UO students succeed. They work with a diverse student body with a wide range of needs. If you are unsure which resources would work best, they are happy to answer questions and share suggestions. Web: <http://tlc.uoregon.edu/> - Phone: 541-346-3226

Diversity: The University of Oregon is dedicated to the principles of equal opportunity in education and an acceptance of diversity as an affirmation of individual identity within a welcoming community. Open inquiry, freedom of expression, and respect for difference are therefore fundamental to a comprehensive and dynamic education. This course is committed to upholding these ideals by encouraging the exploration, engagement, and expression of divergent perspectives and diverse identities. Please do not hesitate to contact me if you feel aspects of the instruction or course design, or classroom activities, undermine these principles in any way. You may also notify the ENVS Program at 541-346-5000. For additional assistance and resources, I encourage you to contact the following campus services, as appropriate for your concerns:

- *Office of the Vice President for Equity and Inclusion:* This Office promotes inclusive excellence by working to ensure equitable access to opportunities, benefits, and resources for all faculty, administrators, students, and community members. Web: <http://diversity.uoregon.edu/> - Phone: 541-346-3175
- *Bias Response Team (BRT):* The BRT works to gather information about bias incidents and to support those who have witnessed, or have become a target, of an act of bias. The BRT provides targets of bias a safe space to have their voices heard, to promote civility and respect, to effect change around these important issues in a quick and effective manner, and to ensure a comprehensive response to bias incidents. Web: http://bias.uoregon.edu - Phone: 541-346-1134

**thanks to Kathy Lynn and Jason Schreiner for assembling and sharing the information on this page*