

Syllabus for ENSC001: Intro. Environmental Science: Natural Resources
TR 12:40-2:00 pm, Watkins 1000
UCR Fall Quarter 2008

Instructors:

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- Office hours: MON 2:00PM- 3:30PM, TUES 2:00PM-4:00PM, or by appointment

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Catalog Description:

Introduction to Environmental Science: Natural Resources 4 Lecture, 3 hours; discussion, 1 hour. Course offers an introduction to environmental science, focusing on natural resource description, management, and conservation. Topics covered include ecosystem characteristics and function; material and energy flows; population dynamics and influence of population on the environment; energy resources and conservation; and mineral and soil resources and their management.

Required Textbook:

Environment 6th ed. by Raven, Berg and Hassenzahl. It is published by John Wiley & Sons (ISBN#. 978-0-470-11926-6). You will also be occasionally assigned readings outside of the textbook. Reading assignments will be posted on the class web site. These will also be announced in class.

Please NOTE! The textbook has a rather useful Student Companion Site for additional self-directed study and review of textbook readings. This website is located at ...

www.wiley.com/college/raven . . . After you reach this link, navigate to the 6th edition of the text and the student companion site link.

Textbook is also on library reserve:

The class textbook (*Environment* 6th edition, by Raven, Berg, and Hassenzahl) is available for a two hour reserve period at UCR's Science Library Reserve Desk (contact Reserve Desk at 827-2828). Multiple copies will eventually be placed on reserve there; currently one copy is available (9/25/2008 GvK).

Student Classroom Response System (CLICKER) IS REQUIRED FOR EACH STUDENT in class during lecture: This is the classroom tool also known as the **Clicker**.

Bringing a "clicker to lecture is required by all students. (<http://clickers.ucr.edu/>).

These are available for purchase from the UCR campus bookstore. They must be registered to you in order to function properly. Also, please contact Technical Support (x2-3555 or helpdesk@ucr.edu) if you have any trouble obtaining or using a "clicker". Bring the 'clicker' to lecture starting the week of Tuesday (9/30/2008).

Class (ENSC001) Website: <http://ilearn.ucr.edu/>

- This is the iLearn website where our class materials are located. Your Login and password: UCR NetID and password. These are the same credentials you use when logging into your UCR Webmail account.
- If you are registered for the course, the ENSC001 links should appear there. Once you navigate to the ENSC001 class website, iLearn displays button bars on the left side of the page. These are where various files from class will be located.
- Highlights of iLearn ENSC001 file locations. **It is mandatory to keep updated on what is located and being updated in the ENSC001 iLearn class website as the quarter progresses.** If you need help with iLearn, please contact For assistance, students may contact the Student Help Desk at (951) 827-6495 or helpdesk@ucr.edu, or use the online help documents at <http://scs.ucr.edu/ilearn>.

iLearn Button Bar ID	Location for Files such as ...
Announcements	Important course announcements, events
Syllabus	The ENSC001 syllabus
Course Materials	Lecture powerpoints (appear after Lecture), supplementary assigned readings, review sessions, practice exams, forms, etc..
Assignments	assignments discussed in class and the discussion section will also be listed here as a reminder for you

Important dates:

- | | |
|-----------------|---|
| Sept. 25 | First day of lecture |
| Week of Sept.30 | First discussion sections. “Clicker” required for all lectures beginning today. |
| Oct. 10 | Last day to add/drop without getting a “W” on your transcript |
| Oct. 17 | Last day to add without Dean’s approval, last day to withdraw without a fee |
| Oct. 28 | Mid term exam 1 |
| Nov. 7 | Last day to withdraw from class (fee required) |
| Nov. 11 | Veterans Day—no class (NOTE: No discussions this week!) |
| Nov. 20 | Mid term exam 2 |
| Nov. 27-28 | Thanksgiving holiday— <i>no class</i> |
| Dec. 4 | Last day of class, Discussion papers due (see below) |
| Dec. 11 | Final exam (11:30 am – 1:30 pm) |

Policies and Procedures:

1. Discussion section attendance and participation is mandatory (see below).
2. You are responsible for all material in the class notes, readings, and lectures.
3. The midterm exam or the first hour of the final with the lowest score will be dropped.
4. If you miss a midterm exam or the first hour of the final, that will be the dropped grade. Due to this policy, no excuses will be accepted for a missed midterm exam—it will be the one dropped.
5. It is strongly recommended that you take ALL midterm exams and the final.
6. Mid-term and first hour of final exam format will be scantron with one essay question (you will have a choice of several questions to answer). Note that questions from any assigned supplemental reading are likely to show up on these exams.
7. The second hour of the final exam will be essay questions designed to integrate information from the entire course. You will have choices among several questions to answer.

Grading:

- **600 points** exams
 - 2 mid-terms
 - 1st hour of final a non-cumulative exam of last 1/3 of course
 - The lowest score amongst the 2 mid-terms and the first hour of the final will be dropped, the remaining two exams will be worth 200 points each (400 points total)
 - 2nd hour of final cumulative, integrative essay exam worth 200 points
- **400 points** discussion section (see below)
 - 100 points of discussion grade from reading summaries.
 - 100 points of discussion grade from debate analysis forms
 - 100 points of discussion grade from combined TA evaluation (50 points) and self-evaluation (50 points) of debate
 - 100 points of discussion grade from paper
- **50 points** attendance at lecture
- Grades will be curved and the final curve will be determined at the end of the course. Interim curves will be provided after each exam; however, these should be considered as estimates of your current standing in the class, and not promises of your future grade.

Discussion sections: (ATTENDANCE REQUIRED):

021	M	4:10-5:00 PM	WATKINS 2240
022	M	12:10-1:00 PM	PIERCE 3374
023	T	3:40-4:30 PM	SPIETH 1307
024	M	6:10-7:00 PM	PHYSICS 2104
H01	T	9:10-10:00	OLMH 2312

Discussion Sections:

- During your first discussion section meeting, a detailed Discussion Syllabus for your Discussion Section will be made available.
- Discussion will consist of debates on assigned topics from your instructors.
- You will be assigned randomly to a team and each team will be assigned randomly to a topic. You must prepare for both sides of the debate—you will be told on the day of the debate to which side your team is assigned.
- A reading(s) relevant to the debate topic will be assigned the previous week. All students will submit a summary of the reading to the discussion instructor at the beginning of each discussion section, and they will not be accepted at any other time. Thus, attendance is required. These summaries will constitute 25% of your discussion grade.
- Your instructor(s) will evaluate the quality of your research and the other members of your team will evaluate your participation—together, these evaluations will constitute 25% of your discussion grade. Therefore, **EVERY TEAM MEMBER MUST PARTICIPATE EQUALLY.**
- A detailed paper will be required. Each student will write a paper summarizing the facts behind their debate issue, the arguments on both sides, and which side is more persuasive based upon data and scientifically based arguments. The paper will be due by 5 pm on the last day of lecture (12/4/2008). No late papers, e-mailed papers, or papers left in mailboxes will be accepted. **THIS IS A STRICT POLICY AND WILL BE ADHERED TO SCRUPULOUSLY. At 5:01, THE DOORS CLOSE—DON'T BE LATE!** This will constitute 25% of your discussion grade.
- Students not participating directly in debates will judge which team presented the most persuasive case.
 - A form summarizing the main arguments by each side, which side was more persuasive, and why will be due at the end of each debate period. These forms will constitute 25% of your discussion grade.
 - Therefore, attendance and participation is REQUIRED
- If you know that you will have an excused absence for any discussion section during the term, see your TA in advance to make alternate arrangements.
- **NO EXCUSES WILL BE ACCEPTED FOR MISSING YOUR ASSIGNED DEBATE DAY**—if you do not attend, you get no credit for that 25% of the discussion grade. Please schedule accordingly.

Intellectual honesty:

Cheating in any form will not be tolerated. Consequences for cheating can include receiving a 0 for that assignment, receiving an F for the class, or even suspension or expulsion from school. For definitions of academic dishonesty (i.e. cheating), see the UCR web page (<http://conduct.ucr.edu/>).

The instructors will make every effort to be clear about what is expected of you in order to minimize misunderstandings regarding what constitutes cheating. For example, proper referencing will be REQUIRED for your final paper—if you have any questions what constitutes proper referencing, see the instructor or a TA. However, it is your responsibility to familiarize yourself with the University's policies and to ASK QUESTIONS IF ANYTHING IS UNCLEAR.

At the University of California, Riverside (UCR) honesty and integrity are fundamental values that guide and inform us as individuals and as a community. The academic culture requires that each student take responsibility for learning and for producing products that reflect their intellectual potential, curiosity, and capability. Students must represent themselves truthfully, claim only work that is their own, acknowledge their use of others' words, research results, and ideas, using the methods accepted by the appropriate academic disciplines and engage honestly in all academic assignments. Misunderstanding of the appropriate academic conduct will not be accepted as an excuse for academic misconduct. If a student is in doubt about appropriate academic conduct in a particular situation, he or she should consult with the instructor of this course to avoid the serious charge of academic misconduct. Examples of misconduct include: cheating, plagiarism, unauthorized collaboration, facilitating academic dishonesty, interference or sabotage.

UCR Counseling Services:

Resources are available on-campus for students having personal problems or lacking clear career and academic goals which interfere with their academic performance. These resources include:

1. University Counseling Center, <http://counseling.ucr.edu/>;
2. Career Resource Center, <http://careers.ucr.edu/>.

Software Use:

All faculty, staff and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

Student with Disabilities:

Students requesting classroom accommodation should consult Student Special Services at <http://specialservices.ucr.edu/>.

ENSC001 LECTURE & TEXT CALENDAR Fall 2008 UCR

von Kiparski

Date	Topic	Book(RAVEN) Chapter Readings	Other Reading -to be assigned*	Notes
UNIT I. INTRODUCTION TO ENVIRONMENTAL SCIENCE				
9/25	Orientation and class intro	1		First discussion sections meet this week (9/29-9/30). Bring clickers starting today.
9/30	Scientific method, risk assessment, policy I	1		
10/2	Scientific method, risk assessment, policy II	1		
UNIT II. ECOLOGY, ENERGY, AND EARTH SYSTEMS INTERACTIONS				
10/7	Ecosystems and energy I	3		
10/9	Ecosystems and energy II	3		
10/14	Ecosystems and living organisms	4		
10/16	Ecosystems and the physical environment I	5		
10/21	Ecosystems and the physical environment II	5		
UNIT III. ENVIRONMENTAL HISTORY, LAWS, ETHICS AND ECOSYSTEMS				
10/23	Environmental laws, economics and ethics I	2		Covers material through 10/21
10/28	Midterm exam I			
10/30	Environmental laws, economics and ethics II	2		
11/4	Ecosystems I	6		
11/6	Ecosystems II	6, 10		
11/11	Veteran's day—NO CLASS			
UNIT IV. POPULATION ECOLOGY, POLLUTION, AND HEALTH				
11/13	Understanding population growth, overpopulation and health I	8,9		Covers material from 10/23 through 11/13
11/18	Understanding population growth, overpopulation and health II	8, 9, 7		
11/20	Midterm exam II			
UNIT V. ENVIRONMENTAL ANALYSIS OF ENERGY RESOURCES				
11/25	Fossil fuels	11		Watkins 1000, final exam. 11:30-12:30 pm, non-cumulative covering lectures from 11/18 through 12/4. 12:30-1:30 pm, cumulative essay exam integrating entire class.
11/27	Thanksgiving—NO CLASS			
12/2	Energy conservation and energy alternatives I	12,13		
12/4	Energy conservation and energy alternatives II	12,13		
12/11	FINAL EXAM			
(11:30AM-1:30PM)				

*These are class supplemental reading assignments and are separate from the discussion reading assignments. These readings will be assigned in class during the quarter and referenced on iLearn.