

ESRM 100: Introduction to Environmental Science and Resource Management
California State University Channel Islands
Spring 2005

Section I - TTH 10:00am – 11:15pm
Instructor: Dr. Don Rodriguez
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Office Hours: TTH 9:00am – 10:00am Classroom: 1424 Bell Tower

Texts: Environmental Science 8th ed. (2002) by Richard Wright
ESRM 100 Packet (lecture outlines and study guides)

COURSE OBJECTIVES

- * To introduce the student to the broad array of environmental science and resource management topics including biological diversity, biogeochemical cycles, energy, food production, air and water environments, and societies collective impact on the environment
- * To provide an opportunity to become current with local, regional, national, and global environmental issues
- * To present an introduction to ecological, political, and economic concepts that will provide a foundation for sound environmental decisions
- * To introduce the interdisciplinary nature and approaches needed in environmental science and resource management
- * To provide a basic knowledge and background that allows for critical thinking about environmental issues

Upon completion of this course, the successful student should understand and be able to:

- Articulate the major local and global environmental issues of the day
- Identify the ways in which humanity has affected the ecological function of natural environments
- Critically analyze environmental issues and correctly identify the root causes
- Identify the role of science in addressing environmental problems
- Recognize the need to incorporate socio-economic, political, and cultural considerations into environmental decision making

TESTING AND GRADING (600 points possible)

1. *3 UNIT EXAMS @ 100 pts. each* (Lowest unit exam score is dropped)
2. *FINAL EXAM @ 200 pts.*
3. *IN CLASS ASSIGNMENTS totaling 100 points*
4. *TERM PAPER @ 100 pts. Concerning a local environmental issue (see below)*

OR

ENVIRONMENTAL SERVICE @ 100 pts. (This work will consist of a minimum of 15 hours of environmental service for an environmental organization of your choice.)

Academic Integrity:

All work that students submit as their own work must, in fact, *be* their own work. For example, if a paper presents ideas of others, it must clearly indicate the source. Word-for-word language taken from other sources – books, papers, web sites, people, *etc.* – must be placed in quotation marks and the source identified. Likewise, work on tests and exams must be the student’s own work, not copied or taken from other students’ work, and students must comply with instructions regarding use of books, notes, and other materials.

In accordance with the CSU Channel Islands policy on academic dishonesty, students in this course who submit the work of others as their own (plagiarize), cheat on tests and examinations, help other students cheat or plagiarize, or commit other acts of academic dishonesty will receive appropriate academic penalties, up to and including failing the course.

Papers with plagiarized ideas or language will be graded “F” and must be rewritten with proper use of quotations and referencing. The grade of “F” will remain the recorded grade on that assignment.

Plagiarism or cheating on tests and exams will result in an “F” on the test or exam, very likely resulting in a lower or possibly a failing final grade in the course. To complete course requirements, students must retake the test or exam during the instructor’s scheduled office hours.

In cases where the cheating or plagiarism was premeditated or planned, students may receive an “F” for the course.

Students are encouraged to consult with the instructor on when and how to document sources if they have questions about what might constitute an act of plagiarism or cheating.

Disruptive Classroom Behavior:

The classroom is a special environment in which students and faculty come together to promote learning and growth. It is essential to this learning environment that respect for the rights of others seeking to learn, respect for the professionalism of the instructor, and the general goals of academic freedom are maintained. Differences of viewpoint or concerns should be expressed in terms which are supportive of the learning process, creating an environment in which students and faculty may learn to reason with clarity and compassion, to share of themselves without losing their identities, and to develop an understanding of the community in which they live. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class. As a courtesy to others, **PLEASE turn off your cell phones prior to entering the classroom.**

Grade Scale:

<u>Points</u>	<u>Percentage</u>	<u>Grade</u>	<u>Points</u>	<u>Percentage</u>	<u>Grade</u>
550 +	92% and above	A	429-464	72-77%	C
537-549	90-91%	A-	417-428	70-71%	C-
525-536	88-89%	B+	399-416	68-69%	D+
489-527	82-87%	B	369-398	62-67%	D
477-488	80-81%	B-	357-368	60-61%	D-

465-476

78-79%

C+

0-356

0-59%

F

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Term Paper

The term paper is designed to allow each student to explore a local environmental issue of his/her choice. Select one issue (i.e. urban sprawl/land use, agriculture, solid waste, water conservation, parks and protected area management, etc.), and follow it throughout the semester in the local media. This issue must be particular to Ventura County and/or one of the municipal areas in this vicinity. Choose a number of recent (<1 year old) articles concerning your topic that will enrich your research.

Extra Credit for this assignment: write a 250 word letter to the editor on this topic for the Ventura Star Herald.

Each paper must be typed and should be a minimum of 15 pages. It should include a bibliography and/or literature cited. Please submit each article with your paper, including date and the source of the article (e.g. Los Angeles Times, Nov. 19, 2004). Copies are acceptable.

Papers are worth 100 points and are due Tuesday May 10, 2005.

Environmental Service

Environmental Service is intended to introduce students to the kinds of activities undertaken by governmental or private environmental organizations. Students who elect to substitute work experience for the term paper are expected to submit a short (3-5 page) report on their experience. The report should include the name of the organization for which you worked, the name and telephone number of a person who supervised your work, a brief narrative on the goals and objectives of the organization and how they are contributing to the environmental scene both locally and globally. The paper must contain a reflective component that ties the experience to a topic we have considered this semester, and the value of that experience to you. A key to a successful experience is maintaining a journal of your service learning experience. After each visit to your organization/agency, write down your impressions and experiences. This will assist in your write-up. Reports on work experience **must be typed** and should not exceed 5 pages in length.

NOTE that this is an alternative to the term paper; you are not required to do both.

Fifteen hours (minimum) of work experience is worth **100 points! Reports on work experience are due Thursday May 12, 2005.**

Potential Service Providers

City of Camarillo

Planning and Land	
Use Code Enforcement	383-5660
Parks and Recreation	482-1996

City of Oxnard

Planning	385-7858
Parks	385-7950
Solid Waste Recycling (Jay Duncan, Mgr)	385-8059

City Of Ventura

Stormwater Quality	652-4582
Interpretive Outreach Program	650-8137
Planning and Zoning	654-7893
Hazardous Materials Program	658-4711
Stormwater Quality	449-2386
Water Conservation	449-2400

Ventura County

Environmental and Energy Dept.	289-3333
Agricultural Preservation Program	654-2555
Agricultural Preserves	654-2805
Planning Commission	654-2485
Population	654-2443
Hazardous Materials	654-2813
Land Use	654-2811
Ocean Water Testing	654-3524
Solid Waste	654-2813
Air Pollution Control	
Barbara (Public Info Officer)	645-1400
Hazardous Waste Planning	289-3109
Household Hazardous Waste	289-3110
Recycling	289-3335
Recycling Market Development	289-3337
Stormwater mgmt/water quality	654-5051
Water Resources and Engineering	654-2039

State Agencies

CA Coastal Commission	585-1800
CA State Parks (Coast District)	849-1400
CA Pesticide Regulation Dept.	654-4889
U.C. Cooperative Extension	645-1451

Environmental Organizations

Conservation Fund	649-3535
Environmental Coalition (Ventura Co. Pat Baggerly)	640-0124
Mesa Environmental Education	646-8712
Ojai Land Conservancy (Jim Engle)	646-7930
Save the Environment Foundation. (Ventura)	641-0101
Surfrider Foundation	667-2222
Wishtoyo Foundation	382-4540
Wilderness Education	667-2057
Audubon Society	289-0440
Mattila Hall Coalition (Ventura River Protection)	648-4005

Private Environmental Consultants

West Coast Environmental (C. Casavan)	644-7976
Rincon Consultants	641-1000
Kennedy/Jenks Consultants	658-0607
Boyle Engineering	644-9704
Penfield & Smith	981-0706
RBF Consulting	383-3373

Quasi-Governmental Organizations

Calleguas Municipal Water District	526-9323
United Water Conservation District	525-4431
Assoc. of Water Agencies	644-0922
Camrosa Water District	482-8214

Federal Agencies

U.S. Soil Conservation Service (NRCS)	346-4489
U.S. Resource Conservation District	386-4685
U.S. Forest Service	646-4348
NPS Channel Islands National Park	658-5700
NPS Santa Monica Mtns. Recreation Area	370-2300

*ESRM 100 Verification Form
California State University Channel Islands
Environmental Service*

Name of Environmental Organization: _____

Summary of Work Completed:

Additional Comments of service provider: _____

I certify that _____ has completed 15 hours of voluntary service with our organization.

Date:
Signature:
Title:

Please return by May 12, 2005

***Dr. Don Rodriguez
Environmental Science and Resource Management
California State University Channel Islands
One University Drive
Camarillo, CA 93012***

COURSE OUTLINE

WEEK	DATE	TOPIC	READINGS: <u>ENVIRONMENTAL SCIENCE</u> : Chapter: (Pages)
1	T 1/25	INTRODUCTIONS/ Logistics/Why Environmental Science?	
	R 1/27	INTRODUCTION: Toward a Sustainable Future (Video)	CH. 1: (1-22)
2	T 2/1	HISTORY of the Environmental Movement in the U.S.	(HANDOUT)
	R 2/3	HISTORY of the Environmental Movement in the U.S.	(HANDOUT)
3	T 2/8	THE HUMAN POPULATION: Dimensions	CH. 5: (123-149)
	R 2/10	POPULATION AND DEVELOPMENT	CH. 6: (151-175)
4	T 2/15	OPEN/REVIEW FOR EXAM	
	R 2/17	EXAM #1	
5	T 2/22	ECOSYSTEMS: What They Are.	CH. 2: (26-53)
	R 2/24	ECOSYSTEMS: How They Work.	CH. 3: (54-83)
6	T 3/1	ECOSYSTEMS: How They Change	CH. 4: (84-119)
	R 3/3	FIELD (CSUCI Campus)	
7	T 3/8	ENERGY: Fossil Fuels	CH. 12: (320-347)
	R 3/10	ENERGY: Renewables	CH. 14: (374-403)
8	T 3/15	FIELD (CSUCI Cogeneration Facility)	
	R 3/17	OPEN/REVIEW FOR EXAM	
9	T 3/29	EXAM #2	
	R 3/31	CESAR CHAVEZ HOLIDAY	
	T 4/5	THE PRODUCTION & DISTRIBUTION OF FOOD	CH. 9: (232-259)
10	R 4/7	PESTS AND PEST CONTROL	CH. 16: (434-461)
	T 4/12	FIELD (Local Agriculture)	
11	R 4/14	WATER: Hydrologic Cycle and Human Use	CH. 7: (176-202)
	T 4/19	WATER: Pollution and Prevention	CH. 17: (462-489)
12	R 4/21	OPEN/REVIEW FOR EXAM	
	T 4/26	EXAM #3	
13	R 4/28	RESOURCE MANAGEMENT OVERVIEW: Public Lands	(HANDOUT)

COURSE OUTLINE

WEEK	DATE	TOPIC	READINGS: <u>ENVIRONMENTAL SCIENCE</u> : Chapter: (Pages)
	T 5/3	WILD SPECIES: Biodiversity and Protection	CH. 10: (260-287)
14	R 5/5	ECOSYSTEMS CAPITAL: Use & Restoration	CH. 11: (288-319)
	T 5/10	URBAN ENVIRONMENTS: Solid/Hazardous Waste	CH. 18 (490-511) CH. 19: (511-537)
15	R 5/12	URBAN ENVIRONMENTS: Sustainable Communities	CH. 23: (634-658)

FINAL EXAM IS SCHEDULED FOR:

DATE: Thursday MAY 19th

TIME: 10:30 – 12:30 pm

PLACE: 1424 Bell Tower

No alternate dates for the final will be considered!