

WE '01
Rms

Chaminade University
Winter 2001

LECTURE AND LAB SYLLABUS
Biology 11060 and 11060L
People and Nature

Instructor Randy Honebrink (Phone 587-0111 (b); 947-4543 (h); email
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Meeting Dates/Times Jan 8 – Mar 21; T, Th, Lecture 1645-1850, Lab 1905-2110
Chaminade University requires that at least two labs be held on the main campus. One of these will include a Saturday morning field trip, held in lieu of a Thursday evening session (see course schedule).

Course Description People and Nature is a 3-credit course which surveys environmental science. We will investigate how living things interact with their environments, and consider problems that arise when balances are not maintained, especially with regard to human activities. Topics include: scientific methodology, history of science, ecological terms and theories, global population growth, pollution, global warming, habitat loss, waste of resources, and extinction. The 1-credit Biology 11060L lab must be taken concurrently with lecture.

Course Objectives At the end of this course, the student will have: 1) basic knowledge of the processes of the natural environment, including the complex relationships among living things and their environment; 2) an understanding of current environmental issues, including an historical perspective; and 3) an awareness of possible solutions to certain environmental problems.

Required Text *Environmental Science: Working With the Earth*, (8th ed.), by G. Tyler Miller, Brooks/Cole, Pacific Grove, CA. 2001. There is no laboratory manual; lab handouts will be provided.

Grading Lectures and labs are graded separately. Lecture grades will be based on four exams, four article summaries, several written assignments, and class participation and attendance (P/A). Lab grades will be based on lab assignments, and participation and attendance.

<u>LECTURE</u>		<u>LAB</u>	
Exams	200 pts	Lab notebook	150 pts
Summaries	80 pts	P/A	50 pts
Written Assignments	40 pts	TOTAL	200 pts
Final exam	100 pts		
P/A	30 pts		
TOTAL	450 pts		

Grading scale: 90%=A; 80%=B; 70%=C; 60%=D

Attendance

Attendance is expected for each lecture and lab. Attendance for labs is especially important, as labs cannot be made up. **Unexcused** absences for lectures or labs will result in grade penalties to be determined by the instructor. Exams missed because of unexcused absences cannot be made up. Excused absences should be documented, e.g. physician's note. Early exams will not be given.

Article Summaries

Four summaries of articles related to current environmental topics will be required at times indicated on the course schedule. Two articles must be on local issues, two on national or global issues. Each summary is worth 20 points, included in the lecture grade. Summaries must be from a newspaper, journal, magazine, or electronic source not more than two years old. Each summary should be one to two pages long, word processed or typed, and double spaced. The summary must include author, title of article, source, date of publication, and page numbers. For web site publications, include author (if known), title, last date updated, URL, and date accessed. You must include a xerox copy of the article with your summary, or a print-out of a web site source.

Lab Notebook

You should have separate notebooks for lecture and lab. The lab notebook should be bound (spiral is acceptable), and will be used for observations, drawings, notes, data, and answers 14 questions on lab handouts. The notebook will be graded once at the end of the course, but will be collected from time to time for examination.

Academic Honesty

Students are expected to comply with the rules governing academic honesty as published by Chaminade University. Students involved in cheating or plagiarism will be issued failing grades for the exam or assignment in question.

TENTATIVE COURSE SCHEDULE

Jan	9	T	Intro to course; environmental problems	Chap. 1
	11	Th	Scientific principles; intro to lab	3
	16	T	Ecosystems	4
	18	Th*	Biodiversity	5
	23	T	Exam 1; effect of climate and weather	6
	25	Th	Population dynamics, human health	7,8
	30	T	Human population growth	9
Feb	3	Sa*	Field trip - Nuuanu stream (meet at campus 0800)	
	6	T	Exam 2; atmospheric concerns	10,11
	8	Th	Water resources and pollution	12
	13	T	Field trip - H-Power (meet at Nimitz Gate 1430)	
	15	Th*	Solid and hazardous waste	14
	20	T	Exam 3; shallow reef and tidepool ecosystems	
	22	Th	Field trip - Makapuu tidepools (meet at campus 1700)	
	27	T	Food resources	15,16
Mar	1	Th*	Sustaining terrestrial ecosystems	17
	6	T	Exam 4; sustaining wild species	18
	8	Th	Energy resources	19,20
	13	T	Review for exam	
	15	Th	Final exam	
	20	T	Reserve day	

* Article summaries due