COURSE: BI 1 I OL - People and Nature (Lab)
TIME: 2:00-4:50 p.m.-M (Jan. 14 -April 29, 2002)
INSTRUCTOR: Dr. Alan Ohta
email: alohta@hotmail.com
OFFICE HOURS: T,Th 10:00 a.m. - 11:00 a.m.

COURSE **DESCRIPTION:** The lab class for the course People and Nature is designed to show man's affect on the Hawaiian environment. Thus we will be learning some natural history of the Hawaiian Islands and will also go on field trips to places which show man's impact on paradise.

OBJECTIVES:

1. To increase awareness of the uniqueness of our local environment.
2. To observe man's impact on the Hawaiian environment.
3. To increase awareness of the environmental problems facing Hawaii today.
4. To observe some of the steps taken to protect the Hawaiian environment.
5. To increase appreciation for the natural environment.

ASSIGNMENTS:

1. All field trips will have a handout as a guide for the trip. These will be provided prior to the field trip and will be turned in on the class period following the field trip.
2. All lab exercises will require a written report using the format provided by the instructor. These reports will be due as announced by the instructor.

LABS:

1. Laboratory topics and assignments are listed in the course outline.
2. Examination dates are also listed in the course outline.
3. The instructor reserves the right to add, omit, or change the materials as he sees fit.

EXAMS, QUIZZES & **GRADES:**

1. All exams & quizzes are "open book & notes" & will consist of short essay questions. You will be graded on your ability not only to answer the question (some can be answered in several ways), but also in how effectively you can defend your answer/position using your knowledge of the subject & applying what you learned through the use of appropriate facts/examples. Thus all questions asking for your opinion or position, whether stated or not have an implied "Why?" or "How?" question attached.
2. Grades will be based on the following system & scale:

Grade Scale:		Grading System:	
90% & above	= A	Labs	75%
80 - 89%	= B	Final	25%
65-79%	= C		
50 - 64%	= D		
49% & below	= F		

COURSE OUTLINE:

01/14/02	Introduction
01/21	Scientific Method
01/28	Hawaii's Natural History
02/04	Field Trip: Board of Water Supply
02/11	Water Usage & Conservation Lab
02/18	Holiday: President's Day
02/25	Field Trip: H-power
03/04	Opala Collection & analysis
03/11	Field Trip: Waimanalo Landfill
03/18	Hawaii's energy problems & solutions
03/25	Spring Break
04/01	Field Trip: Sand Island Sewage Treatment Plant
04/08	Foods Lab
04/15	Field Trip: Pali Lookout
04/22	Life Expectancy Lab
04/29	Lab Final

All lab writeups are due on the next lab period. Thus you have one entire week to complete the assignment & no late labs will be accepted. If you are not attending lab for any reason e-mail your previous assignment to me by the date & time indicated or it will be considered late. Missed labs cannot be made up unless a valid excuse is provided for your absence.

COURSE: BI 110 - People and Nature (Lecture)
TIME: 11:00-12:20 a.m. TTh (Jan. 15 - May 08, 2002)
INSTRUCTOR: Dr. **Alan Ohta**
email: alohta@hotmail.com
OFFICE HOURS: TTh. 10:00 a.m. - 11:00 a.m.
TEXT: Environmental Science, 8 h ed. **(2001), G. Tyler Miller, Jr.**
COURSE DESCRIPTION: This course is designed to introduce you to our relationship with the natural environment and the consequences of our actions/inaction in dealing with it. In order to do this we must look at not only the purely scientific aspects of our world but we must also incorporate man's social aspects as well. Thus we will **be combing ideas and information from both the natural sciences** (1.8., biology, geology, physics, chemistry, **etc.) and the social sciences (i.e., economics, politics, ethics, etc.) to try to gain an understanding of man's present relationship with the environment, what historical events have brought us here and what we must accomplish to in sure our survival through the next millennium.**
OBJECTIVES:
1. **To gain some basic knowledge of the processes of our natural environment.**
2. **To increase awareness of the complex relationships among all living things and their non-living environment.**
3. **To examine man's past and present relationship with his environment and the possible affects of these relationships on our future.**
4. **To increase awareness of the environmental problems facing us today and to present some solutions to these problems.**
5. **To enhance your knowledge and awareness of our environmental problems to enable more informed political and economic decisions.**

LECTURES:
1. **Lecture topics and text assignments are listed in the course outline.**
2. Examination **dates are also listed in the course outline.**
3. **The instructor reserves the right to add, omit, or change the materials as he sees fit.**

EXAMS, QUIZZES & GRADES:
1. **All exams & quizzes are "open book & notes" & will consist of short essay questions. You will be graded on your ability not only to answer the question (some can be answered in several ways), but also in how effectively** you **can defend your answer/position using your knowledge of the subject & applying what you learned through the use of appropriate facts/examples. Thus all questions asking for your opinion or position, whether stated or not have an implied "Why?" or "How?" question attached.**
2. **Quizzes will be unannounced & if missed cannot be made** up **w/o a valid excuse.**
3. **Grades will be based on the following system & scale:**

Grade Scale:	
90% & above	**= A**
80 - 89%	**= B**
65-79%	**= C**
50 - 64%	**= D**
49% & below	**= F**

Grading System:	
Quizzes	**30%**
Mid Term	**30%**
Final	**40%**

COURSE OUTLINE:

01/15 Course introduction
01/17 Introduction to Science (Chap. 3)

01/22 Earth History
01/24 Evolution (Chap. 5)

01/29 Environmental Problems (Chap. 1)
01/31 Resources & Pollution

02/05 Ecosystems (Chap. 4)
02/07 Chemical Cycles

02/12 Climate & Weather (Chap. 6)
02/14 Biomes

02/19 Resources: Water (Chap. 12)
02/21 Water Pollution & Solutions

02/26 Air & Air Pollution (Chap. 10)
02/28 Global Warming (Chap. 11)

03/05 Resources: Minerals (Chap. 13)
03/07 Midterm Exam

03/12 Resources: Soils
03/14 Resources: Foods (Chap. 15)

03/19 Protecting Our Food (Chap. 16)
03/21 Toxicology & Risk (Chap. 8)

03/26 Spring Break
03/28 Spring Break

04/02 Solid Waste (Chap. 14)
04/04 Toxic & Hazardous Waste

04/09 Nonrenewable Energy Chap. 19)
04/11 Fossil Fuels

04/16 Renewable Energy (Chap. 20)
04/18 Alternative Energy

04/23 Population Dynamics (Chap. 7)
04/25 Human Population (Chap. 9)

04/30 Economics (Chap. 2)
05/02 Politics

05/08 Final Exam (08:00am - 10:00am)