

COURSE: BI 110 - People and Nature (Lecture)

TIME: 9:40-12:50 a.m. MWF (May 22 - June 30, 2000)

INSTRUCTOR: Dr. Alan Ohta

[email: ohta@i-one.com](mailto:ohta@i-one.com)

OFFICE HOURS: T, Th. 1:00 - 3:00 p.m.

TEXT: Environmental Science, 7th ed. (1999), 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 combining ideas and information from both the natural sciences (i.e., 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 insure 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. 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:

05/22/00	Course/subject introduction (Chap 3)
05/24	Life: Origins & characteristics
05/26	Evolution
05/29	Holiday: Memorial Day
05/31	Environmental Problems (Chap 1 & 2)
06/02	Ecosystems (Chap 4 & 5)
06/05	Water Resources (Chap 11)
06/07	Air & Air Pollution (Chap 9 & 10)
06/09	Midterm Exam
06/12	Holiday: Kamehameha Day
06/14	Soil & Agriculture (Chap 12, 14, & 15)
06/16	Toxins, Wastes & Health (Chap 8 & 13)
06/19	Energy (Chap 18 & 19)
06/21	Alternative Energy
06/23	The Ultimate Problem: Human Population Growth (Chap 6)
06/26	Economics & Politics vs. Environment (Chap 7)
06/28	Solutions(?): Sustaining systems (Chap 16 &17)
06/30	Final Exam

COURSE: BI 110L - People and Nature (Lab)
TIME: 9:40-12:50 a.m.-T Th (May 23 - June 29, 2000)
INSTRUCTOR: Dr. Alan Ohta
[email: ohta@i-one.com](mailto:ohta@i-one.com)
OFFICE HOURS: T, Th. 1:00 - 3:00 p.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:

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

Grading System:

Labs	75%
Final	25%

COURSE OUTLINE:

05/23/00	Hawaii's Natural History
05/25	Field trip to Palolo Stream.
05/30	Hawaii's unique flora & fauna
06/01	Field Trip to Board of Water Supply in Waihe'e (Windward side by Hygenic Store)
06/06	Water Usage & Conservation Lab
06/08	Field Trip to H-power & Waimanalo Landfill
06/13	Opala Collection & analysis
06/15	Field Trip to Sand Island Sewage Treatment Plant
06/20	Hawaii's energy problems & solutions
06/22	Field Trip to Kaena Point a Natural Area Reserve
06/27	To be announced
06/29	Final Exam