WE00
BIY

COURSE: BI 102 General Biology (Lecture)
TIME: 1730-193 5 M & W (Jan 10 - Mar. 22, 2000)
INSTRUCTOR: Dr. Alan Ohta,
email: ohta@i-one.com
OFFICE **HRS:** 1630 -1730 M or by appointment
TEXT: ***Biology*** *Life on* ***Earth*****, 5th** ed. by Teresa & Gerald Audesirk, Prentice Hall, 1999/1996.

COURSE DESCRIPTION: This course is designed to complete your introduction to the Biological Sciences. Concepts learned in the first half of the course will be applied to the organismal level of life. Biological systems as adaptations to a multicellular existance will also be investigated.

OBJECTIVES:

1. to provide a sound background of biological systems (function & structure).
2. to promote an appreciation for the complexity of **living** organisms.
3. to promote critical thinking in applying concepts.
4. to promote an appreciation for the vast amount of biodiversity & their interrelationship in the ecosystem.

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.
4. Grades *will* be based on the following system & scale:

Quizzes	30%
Midterm Exam	30%
Final Exam	40%

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

COURSE OUTLINE:

01/10/2000	Evolution (Chap 14 & 15)
01/12	Speciation (Chap 16 & 17)
01/17	Holiday: Martin Luther King; Jr. Day
01/19	Systematics (Chap 18)
01/24	Microbes & Fungi (Chap 19 & 20)
01/26	Plants (Chap 21)
01/31	Plant Structures & Functions (Chap 23)
02/02	Plant Reproduction & Responses (Chap 24 & 25)
02/07	Animal Kingdom (Chap 22)
02/09	Homeostasis (Chap 26)
02/14	Midterm Exam
02/16	Circulatory & Respiratory Systems (Chap 27 & 28)
02/21	Holiday: President's Day
02/23	Digestive & Excretory Systems (Chap 29 & 30)
02/28	Endocrine & Nervous Systems (Chap 32 & 33)
03/01	Skeletal & Muscular Systems (Chap 34)
03/06	Reproductive Systems (Chap 35)
03/08	Development & Behavior (Chap 36 & 37)
03/13	Immunology (Chap 31)
03/15	Ecology (Chap 38 - 41)
03/20	Course in Retrospect
03/22	Final Exam

COURSE: BI 102L-General Biology Lab
TIME: 1950-2155 M & W (Jan. 10 - Mar. 22, 2000)
INSTRUCTOR: Dr. Alan Ohta
email: ohta@i-one.com
OFFICE HRS: 1630 - 1730 M or by appointment

COURSE DESCRIPTION: The lab class for this course is designed to aide in your understanding of the function and interaction of the various systems which, working together, constitute a living being. Further, we will be investigating how individuals, populations & communities interact to form complex ecosystems.

OBJECTIVES:

1. To obtain practical knowledge of concepts and structures discussed in the lecture.
2. To promote scientific thinking and inquiry.
3. To enhance powers of observation and to be more scientifically observant.
4. To increase appreciation for the natural environment.

ASSIGNMENTS:

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.
4. Grades will be based on the following system & scale:

Field trips & lab reports	75%
Final Exam	25%

Grade Scale

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

COURSE OUTLINE:

01/10/2000	Introduction
01/12	Scientific Method
01/17	Holiday: Martin Luther King, Jr. Day
01/19	Experimental Design
01/24	Systematics
01/26	Canimalcules
01/31	Discussion of phylogenetic relationships
02/05	*Field trip: Haunama Bay
02/07	Earthworm Dissection
02/09	Clam Dissection
02/14	Squid Dissection
02/19	Field Trip: Aiea
02/21	Holiday: President's Day
02/23	Fetal Pig Dissection (Respiratory system)
02/28	Fetal Pig Dissection (Digestive/excretory systems)
03101	Fetal Pig Dissection (Circulatory system)
03/06	Fetal Pig Dissection (Reproductive system)
03/08	Sheep brain Dissection
03/13	The organism as a whole being.
03/15	Final Exam
03/20	Time off for Saturday field trips.
03/22	Time off for Saturday field trips.