

BI 431: Genetics (3 credits)

Lab Syllabus

Lab Schedule

Chaminade University of Honolulu

Fall 1999

MWF: 10-11

Dr. E. Shimakawa, X803

Office Hours: Mon: 11-12

Tues 9:30-11

or by appointment

Tentative Schedule

Exams & Grading:

Text: *Essential Genetics* by D.L. Hartl, 1996 (or most recent edition)

Course Description: This is an introductory genetics course geared toward upper-division biology majors. BI203 & BI204 (Cellular & Organismic Biology) are prerequisites and CH 203, CH204 are suggested prerequisites. Genetics is the study of inheritance. In this course we will cover:

**the nature and concept of the gene and genetic material
the relationship between traits and genes
gene transmission
the effects of genes during development and differentiation
the new technologies used today in genetics
the behavior of genes and genetic variation in populations over time.**

This field of study overlaps considerably with biochemistry, developmental biology, embryology, and cell biology; and is necessary for a complete understanding of biology and biological systems. The goal of this course is to provide students with a basic understanding of genetic concepts and processes. Successful completion of this course will mean that the student will be able to define and explain each of the items listed above; describe pertinent mechanisms; and work through an example of each principle.

Exams & Grading:

- **3 Midterms: 20% each 60% total grade 9/24, 10/22, 11/19 (tentative)**
- **Quizzes: 2% each 20% total grade every Friday**
- **Cumulative Final: 20% 20% Dec. 16 (Thur) 10:30-12:30**

NO MAKE-UP EXAMS WITHOUT A NOTE FROM YOUR PHYSICIAN.