

LS4 INTRODUCTORY GENETICS
Fall QUARTER, 2008

LECTURE: Tuesday, Thursday 2:00 pm – 3:15 pm in La Kretz 110.

INSTRUCTOR: Jau-Nian Chen (chenjn@mcd.db.ucla.edu)

TEXT: Required: *Principles of Genetics*, 4th edition, by Snustad and Simmons, Fourth Edition. (can be purchased with WileyPlus from the bookstore)

**Alternatively, you can purchase WileyPlus (online option) from
 www.wileyplus.com for \$ 61**

#	Date & Day	TOPICS	READINGS
1	9/25 Th	Introduction, Mendel and Statistics	Chp.1, 3
2	9/30 Tu	Pedigree and Extension of Mendelism	Chp.3, 4
3	10/2 Th	Mitosis & Meiosis; Chromosome	Chp.2,6
4	10/7 Tu	Linkage and Sex Linked Inheritance	Chp 5,7
5	10/9 Th	Linkage and Recombination	Chp 7
6	10/14 Tu	Bacterial Genetics	Chp 8
7	10/16 Th	Bacterial Genetics/Bacteriophage Genetics	Chp 8
10/20 Monday Midterm #1 5-7 PM (Material from Lectures 1-5)			
8	10/21 Tu	Bacteriophage Genetics/ Benzer and the rII locus	Chp 8, 14
9	10/23 Th	Genetic code	Chp 12
10	10/28 Tu	Mutation and Gene Function	Chp 13
11	10/30 Th	Gene Regulation I	Chp.20
12	11/4 Tu	Gene Regulation II	Chp 21
11/5 Wednesday Midterm #2 5-7 PM (Material from Lectures 6-11)			
13	11/6 Th	Techniques of Molecular Genetics	Chp 15
11/11 Veteran's Day, No Lecture			
14	11/13 Th	Molecular Genetics & Genomics I	Chp 16, 17
15	11/18 Tu	Molecular Genetics & Genomics II	Chp 16, 17
16	11/20 Th	Molecular Genetics & Genomics III	Chp 16, 17
17	11/25 Tu	Population Genetics I	Chp 26
11/27 Thanksgiving No Lecture			
18	12/2 Tu	Population Genetics II	Chp 26
19	12/4 Th	Model Organism, Review	
12/8 Mon FINAL 6:30-9:30 PM (All material)			

Exams: Genetic problems and short essays. Questions will be drawn from lecture, assigned problems and reading assignments.

Course Grading: Grading will be strictly based on the quizzes in discussion sections (50 points), 2 midterms (100 points each) and a final (200 points).

Midterms and Final: There will be no make-up exams for the midterm and final exams. All midterm regrades should be submitted *in writing* to LS core office (LS 2305) within 7 days after the midterms. *Oral arguments will not be considered.* Please note that if you ask for a regrade, the entire test will be regraded and your score may move up or down.

Quiz: There will be six quizzes in the discussion section. Each quiz will be worth 10 points. The grade from the lowest quiz will be dropped.