

Text: W.S. Klug & M.R. Cummings. 2003. Concepts of Genetics. Upper Saddle NJ, Pearson Education.

Lecture Schedule (Tentative)

Date	Topic	Readings
Jan. 5	Introduction	Ch. 1
5, 7	Chromosome structure	Ch. 2 & 11
9	Ahhh mitosis, meiosis, & the cell cycle	Ch. 2
12 & 14	Review of mendelian genetics (problems 1-15) Short Quiz	Ch. 3
16 & 19	Variation on Mendel (prob. 16-28)	Ch. 4
21 & 23	Probability and Genetics (prob. 29-33)	Ch. 4
26-Feb. 4	Sex determination, X-inactivation, etc. (prob. 34-49)	Ch. 7
*Jan. 28 *	*Exam I 1/5-1/23*	
Feb. 6-9	Chromosomal abnormalities (prob. 50-58)	Ch. 8
11	Pedigree analysis (prob. 59-66)	Ch. 3
13-16	Linkage of genes & gene mapping (prob. 67-72)	Ch. 6
18	Multiple alleles & Intro to Cancer	Ch. 23
Feb. 20	*Exam II 1/26-2/16*	
23-25	Genetics and immunity, blood types, tissue transplants, etc. (prob. 73-78)	Pgs: 511-514
Feb. 27	LAST DAY TO DROP WITH W	
March 1-5	Spring Break (wear sunscreen!)	
8	Immunity continued Short Quiz	
10 & 12	Nucleic acid structure, DNA replication	Ch. 9 & 10
15	Transcription	Ch. 12
17 & 19	Translation	Ch. 13
19 & 22	Genetics of bacteria and viruses	Ch. 16
March 26	*Exam III 2/18-3/22*	
24 & 29	Gene mutations	Ch. 14
29 & 31	Regulation of Gene expression	Ch. 17 & 21
April 2 & 5	Recombinant DNA	Ch. 18
7	SSD	
9 & 12	Population Genetics (prob. 79-85)	Ch. 25
14 & 16	Genes and environmental factors influence your development and personality	Ch. 24
April 21	*Final Exam 10-11:50 am*	

If there is any student in the class who has special needs because of learning or physical disabilities, please contact the Office of Academic Support (OAS) at 895-2490.

Objectives: To investigate the field of genetics from both the transmission and molecular perspectives.

To practice solving problems using genetic information
To become aware of career opportunities related to genetics
To relate class materials to events in the news and the student's family

Grading:	3 Exams	75 points each	= 225
	2 Short Quizzes	10 points each	= 20
	Final exam	115 points	= 115
	Total		= 360 points.

Grading Scale (in percent of 340 points)

93-100=A	90-92=A-	87-89=B+	83-86=B	80-82=B-	77-79=C+
73-76=C	70-72=C-	67-69=D+	60-66=D	59 or less=F	

Examinations :

Each student is expected to take each exam at its scheduled time. Adequate notice will be given in class if a date for a test is changed. If you are unable to attend a scheduled exam or quiz date, you need to notify me by the day before the test. All excused absences require a written note by someone other than you.

Lab: Everyone taking BIO 375 for the first time must also be registered in lab (BIO 376). Since lab material may appear on the exams, students repeating BIO 375 should review the lab material as well.