

INTRODUCTORY GENETICS - BIOL 3350
Spring 2010

Instructor: Dr. Janey Youngblom
Office Hours: Tues. & Thurs. 2:30-4:00
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Required Text: **Concepts of Genetics, by Klug and Cummings. Ninth edition (©2009)**

<u>Date</u>	<u>Topic</u>	<u>Reading (chapter)</u>
2/16- 2/18	An Introduction to Genetics Mitosis and Meiosis	1 2 and p.516-518
2/23	FURLOUGH DAY – TUESDAY ONLY	
2/25	Mendelian Genetics	3 (omit Chi Square 56-58)
3/2 – 3/4	Extensions of Mendelian Genetics Chromosome Mapping in Eukaryotes	4 5
3/9	Chromosome Mapping in Eukaryotes (cont'd)	5
3/11	MIDTERM 1 – 50 pts.	
3/15	LAST DAY TO DROP	
3/16- 3/18	Genetic Analysis and Mapping in Bacteria and Bacteriophages Sex Determination and Sex Chromosomes	6 7
3/23- 3/25	Chromosome Mutations	8
3/30	QUIZ #1 – 20 pts– based on assigned articles	
	Extranuclear Inheritance	9
4/1	FURLOUGH DAY – THURSDAY ONLY	
4/5-4/9	SPRING BREAK	
4/13	DNA Structure and Analysis	10
4/15	MIDTERM #2 – THURSDAY – 50 pts	
4/20-22	DNA Replication and Recombination DNA Organization in Chromosomes	11 12
4/27- 29	Recombinant DNA technology and Gene Cloning	13
5/4	Quiz #2 (Tuesday) – based on assigned articles	
	The Genetic Code and Transcription	14
5/6	Translation and Proteins	15
5/11- 5/13	Gene Mutation, DNA Repair Genomics, Bioinformatics, and Proteomics	16 21
5/18- 5/20	Applications and Ethics of Genetic Engineering Population Genetics	24 27
6/1	FINAL EXAM (TUESDAY, 11:15 - 1:15) - 50 pts.	

NOTES:

- Pre-requisites for this course are BOTY 1050, ZOOL 1050, and CHEM 1100, 1110, or equivalent.
- The exams will be based on lecture material, assigned chapter material that covers the topics discussed in class, and the assigned problems at the end of each chapter. You are not required to hand in the assigned problems, but they will be helpful in studying for the exams.
- **Exams** - There are a total of 3 exams; 2 midterms and one final. Each exam is worth 50 pts. The final is NOT cumulative. Each exam will consist of 4 sections: multiple choice, matching or True/False, essays, and problems.
- **Quizzes** - There will be two quizzes, each worth 20 points. The quizzes will be based on articles assigned by the instructor.

There will be no make up for missed exams or quizzes, unless you contact me before the test is given.

- **Clickers** – interspersed throughout the semester will be lectures that include clicker participation. There will be a total of 5 days when they are used. For each of these days, you will get a maximum of 5 points for your participation. Total = 25 points for the whole semester.
- **Grading** - This class can only be taken for a letter grade. Credit/no credit grading is NOT an option. The plus/minus grading system will be used as follows:

93.5-100%	= A
90-93%	=A-
87-89.5%	=B+
83.5-86.5%	=B
80-83%	=B-
77-79.5%	=C+
73.5-76.5	=C
70-73%	=C-
67-69.5%	=D+
63.5-66.5	=D
60-63%	=D-
<60%	=F