

INTRODUCTORY GENETICS - BIOL 3350
Spring 2016

**CREATE EVALUATION FORM FOR STUDENTS TO EVALUATE GROUP MEMBERS INDIVIDUAL
 WORK/CONTRIBUTION TO THE GROUP EFFORT**

Instructor: Dr. Janey Youngblom **Office Phone:** 667-3487
Office Hours: Tues. and Thurs . 2:15 – 3:45 **Rm: N-265**
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Required Text: Concepts of Genetics, by Klug and Cummings. 11th edition (©2015)

<u>Date-week of</u>	<u>Topic</u>	<u>Reading (chapter)</u>
January 28	An Introduction to Genetics	1
February 2	Mitosis and Meiosis	2 and p.583-584
February 9	Mendelian Genetics	3 (omit Chi Square)
February 16	Extensions of Mendelian Genetics	4
February 23	Sex Determination and Sex Chromosomes February 24 – LAST DAY TO DROP	7
March 1	EXAM 1 - 50 pts. (Tuesday) Chromosome Mapping in Eukaryotes	5
March 8	Genetic Analysis and Mapping in Bacteria and Bacteriophages	6
March 15	Chromosome Mutations Video - Epigenetics	8
March 22	Quiz #1 –(Thursday)- assigned articles and Epigenetics Special Topics Extranuclear Inheritance	674 - 683 9
March 29	SPRING BREAK – NO CLASSES	
April 5	EXAM 2 - (Tuesday) – 50 pts. DNA Structure and Analysis	10
April 12	DNA Replication and Recombination DNA Organization in Chromosomes	11 12
April 19	Recombinant DNA technology Video – stem cells	20
April 26	Quiz #2 –(Tuesday)-assigned articles and Stem Cells Special Topics Applications and Ethics of Genetic Engineering and Biotechnology	529-544 22
May 3	EXAM 3 - (Tuesday) – 50 pts. The Genetic Code and Transcription	13
May 10	Translation and Proteins Gene Mutation, DNA Repair	14 15
May 17	Population Evolutionary Genetics	25
May 24	FINAL EXAM (TUESDAY, 8:30-10:30) - 75 pts.	

(COMPREHENSIVE)

NOTES:

- Pre-requisites for this course are BOTY 1050, ZOOL 1050, and CHEM 1100, 1110, or equivalent.. You must have passed all these classes.
- The exams will be based on lecture material, assigned chapter readings, and material covered in the Mastering Genetics homework assignments. Each exam will consist of 4 sections: multiple choice, matching or True/False, essays, and problems. **BRING SCANTRON FORM NO. 882-E for each exam, including the final.**
- **Exams** - There are a total of 4 exams; 3 midterms and one final. Each midterm exam worth 50 pts. The final exam is cumulative and worth 75 pts. The total number of points from exams is 225 pts.
- **Quizzes** - There will be two quizzes, each worth 20 points. The quizzes will be based on articles assigned by the instructor and specific “Special Topics” readings from the text book. The total number of points for class quizzes is 40 points.
- **Mastering Genetics** – A maximum total of 50 EQUIVALENT points can be obtained by turning in your Mastering Genetics assignments before the deadline for each assignment. **Please mark the due dates for each assignment on your calendar.** You will not be able to get any credit if you try to turn in your assignments past the due date. **However, you get ONE pass that allows you to turn in ONE of your chapter assignments up to 2 days late without any penalty.** You must notify me if you use this one pass.

To register for the Mastering Genetics program, go to <http://www.masteringgenetics.com> Click the “Student” button. You will need to provide your student access code. It is a printed code provided with the purchase of your new textbook and is located inside the Mastering Genetics Student Access Kit. If you purchased a used textbook, you have the option to purchase an access code online during your registration process. You do NOT need to buy access to Virtual Labs. You also have the option to purchase an electronic version of your textbook.

In Mastering Geneicst, the name of the course is BIOL 3350-Spring 2016- Janey Youngblom. To register, enter the course ID: **MGENYOUNGBLOM20646**

If you encounter any technical problems while conducting your work online, click the “Support” tab located near the upper right hand corner of your page.

- **Reflection Papers** – There will be 2 reflection papers worth 5 points each, for a total of 10 points. Each paper should be 2 pages long, double spaced, 12 point font, 1” margins all around. You should write about your own personal thoughts after listening to or viewing the assigned piece.
 - 1)The first paper will be based on a NPR This American Life episode titled “The DIY Scientist, the Olympian, and the Mutated Gene”. You can access the episode by going to <http://www.thisamericanlife.org/radio-archives/episode/577/something-only-i-can-see> and downloading it as a podcast. There is one story before this main story.
Due date: February 16th. Submit your paper in class (5 pts.)
 - 2)The second paper will be based on a video you will watch towards the end of the semester titled “In the family”. The site for this video will be released later.

Due date: May 10th. Submit your paper in class (5 pts.)
- The total maximum number of points from all categories (exams, quizzes, Mastering Genetics, miscellaneous) is 325 points
- There will be no make up for missed exams or quizzes, unless you contact me before the test is given.

- 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