

## Syllabus

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- S.I. Caroline Maloney [camal001@goucher.edu](mailto:camal001@goucher.edu)
- Textbook: \*Hartl and Jones. Genetics: Analysis of Genes and Genomes (6<sup>th</sup> ed). Jones and Bartlett Pub. 2006.  
\*Elrod and Stansfield. Schaum's Outlines Genetics (4<sup>th</sup> ed). McGraw\_Hill pub. 2002.  
\*In addition you will find an inexpensive calculator useful for problem sets.
- Attendance: Required for all classes and the discussion section.
- Grades: In class semester exams: 50% (2 x 20% and 1 x 10%)  
Comprehensive Final: 25%  
Weekly quiz: 25%
- Problem sets: Working the assigned problems from the text, problem book, and supplementary material is essential for success. You will keep your work in a three-ring notebook, and I will grade the notebooks periodically. The notebook grade will be equal to one weekly quiz. If you have a question about a specific problem, email the instructor by Monday noon and we will review it in class Monday afternoon.
- Exams: There will be three in class hour exams and a comprehensive final exam. The lowest of the three hour exams will count only 10% of the final grade. Hour exams may be rescheduled only for valid reasons and must be discussed with the instructor **in advance**.
- Quizzes: There will be a weekly quiz covering material from the problem sets. The quizzes will generally be taken during the Monday afternoon discussion section, and occasionally during other class periods. You are responsible for checking the **Blackboard** web site regularly for update of quiz dates and topics. The quizzes will be short (ten minutes) and cover recent material. **Missed quizzes will not be rescheduled**. The lowest 2 quiz grades will not factor into the final grade.
- Blackboard: All class assignments, schedule updates, and supplemental material will be posted on the BIO 220 Blackboard site. You must check this site regularly.

**Reminder: All students are bound by the standards of the Academic Honor Code, found at [www.goucher.edu/documents/General/AcademicHonorCode.pdf](http://www.goucher.edu/documents/General/AcademicHonorCode.pdf)**

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
Jan. 28	Introduction to Molecular Genetics and DNA manipulation	Chapter 1 and 2
Feb. 9	Transmission Genetics	Chapter 3
Feb 18	Mitosis and Meiosis/ Chromosomal Inheritance	Chapter 4
Feb. 25	Genetic Linkage Analysis	Chapter 5
<b>March 4</b>	<b>Exam #1</b>	
March 6	Organization of Chromosomes and Chromosome behavior	Chapter 7 and 8
March 13	Population Biology	Chapter 17
March 16	Spring Break	
March 25	Mutation	Chapter 14
March 30	Bacteria and Bacterial viruses	Chapter 9
<b>April 1</b>	<b>Exam #2</b>	
April 8	Gene Expression	Chapter 10 and 11
April 20	Genetic Engineering	Chapter 6 and 12
<b>April 27</b>	<b>Exam #3</b>	
May 1	Extranuclear Inheritance	Chapter 16
May 6	Cancer Genetics	no reading