

INTRODUCTION TO GENETICS

BI 341U and 341R
MWF 10:15-11:20AM
CH Room 71

INSTRUCTOR	COURSE DESCRIPTION
Justin Courcelle 725-3866 justc@pdx.edu	A study of the mechanism of biological inheritance. Includes one 2-hour recitation period.

Textbook: Hartl and Jones. Essential Genetics: A Genomic Perspective 5th Ed. Jones and Bartlett Publishers, (2006) Sudbury MA.

Websites: Course homepage <http://web.pdx.edu/~justc/courses/>

TA: name: Arthur Jeiranian
email: jeirania@pdx.edu
Office Hours: Fri 12-2PM, Room B2-05, SB2

My Office hours: Mon 2:00-4:00 Room B2-04, SB2 or by appointment

Problem sets: problem sets will be assigned each Monday in class and can be downloaded from the course website. These should be done each week as they are assigned, but need to be handed in prior to each exam date. Homework will not be graded, but will be checked for completeness. Points will be deducted based on the level of incompleteness or if they are handed in late.

Recitations: W 2:00-3:50 BA 190
 W 5:00-6:50 CIN 90
 F 2:00-3:50 CIN 90

This time period is designed to answer student questions, discuss the chapter problems, review the bioinformatics tutorials, and explore student interests in the topics covered.

Exams: Exams will be in the form of short answer and multiple choice questions looking to determine your understanding of the material as well as your ability to interpret data

Final: One third of the final will be based on the material from the first two exams and two thirds of the final will be based on new material

Grading: Exam I 25%
 Exam II 25%
 Final 35%
 Problem Sets 15%

There are NO makeup exams. You must take both exams and the final or you cannot earn a passing grade. If caught in an act of academic dishonesty, you will receive a zero for the assignment and be reported to student affairs.

If you are a student with a documented disability and registered at the Disability Resource Center, please contact me immediately to facilitate arranging academic accommodations.

Tentative Schedule

Week	Date	Topic	
1	Sept 26	Genes Proteins and Variation	1
	Sept 28	Replication, DNA Manipulation	6
	Sept 30	Transcription Translation	8
2	Oct 03	Chromosome Structure	3.1-
	Oct 05	Asexual/Sexual Cell Cycles	-3.5
	Oct 07	Basic Inheritance	2
3	Oct 10	Basic Inheritance	2
	Oct 12	Pedigree Analysis	2
	Oct 14	Sex Chromosomes	3.6-
4	Oct 17	Chi-Square test of Progeny	3.7
	Oct 19	Gene Linkage	4
	Oct 21	EXAM I	
5	Oct 24	Recombination Analysis	4
	Oct 26	Recombination Analysis	4
	Oct 28	Gene Mapping	4
6	Oct 31	Chromosome aberrations	5
	Nov 02	Genetics of Bacteria	7
	Nov 04	Genetics of Bacteria	7
7	Nov 07	Genomic Techniques	10
	Nov 09	EXAM II	
	Nov 11	No class	
8	Nov 14	Genomic Techniques	10
	Nov 16	Population Genetics Allelic Variation	14
	Nov 18	Population Genetics Allelic Variation	14
9	Nov 21	Population Genetics Allelic Variation	14
	Nov 23	Quantitative Genetics	15
	Nov 25	No Class	
10	Nov 28	Quantitative Genetics	15
	Nov 30	Variation and Divergence	15
	Dec 02	Variation and Divergence	15
*	Dec 07	FINAL 10:15-12:05	