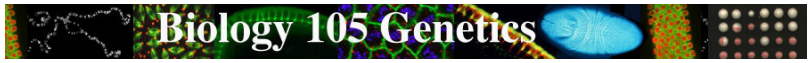

Introduction

Syllabus

Lecture Notes

Homework

Exams

Sections

Office Hours

DRC Info

Links

Syllabus

Lectures:

Text: *Genetics: from Genes to Genomes,* Hartwell et al.

Lecture outlines are available on-line.

Week 1-1 Transcription/translation Reading: Chapter: 6-2, 6-3, 12-1, 12-2, 15-1, 8-2, 8-3,8-4,16-2	**Week 1-2** Basic Mendelian Genetics Mitosis, and Meiosis Reading: Chapter: 2 and 4-1, 4-2, 4-3, 4-4
Week 2-1 Chromosome Theory of Inheritance and Sex chromosomes Dominance Relationships Reading: Chapter: 4-5 and 3	**Week 2-2** Linkage Mapping Reading Chapter: 5
Week 3-1 Recombination MIDTERM Reading: Chapter: 6-5	**Week 3-2** Epistasis-Genetic pathways Complementation Gene/Protein Relationship Reading: Chapter: 3-2, 7-1, 7-2, 7-3
Week 4-1 Chromosomal Rearrangements Mutation Reading: Chapter: 13-1, 13-4, 8-6	**Week 4-2** Recombinant DNA/Blotting Reading: Chapter: 9, 10-1, 10-3
Week 5-1 Genetic polymorphisms Genomics Reading: Chapter: 11-1, 11-2, 11-3, 11-6	**Week 5-2** Epigenetics Control of Gene (Lac) Expression Reading: Chapter: 16-3, 12-3, 13-4, 15

Final Exam	LLL Link to Biostatistics Link to Probability Theory