



BIOLOGICAL SCIENCES 202

Genetics

Spring 2011 (1111)

Instructor	Office	Phone	E-mail
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COURSE PREREQUISITES

BISC 101 and 102¹

COURSE DESCRIPTION

Principles and concepts of the transmission of genetic information treated comparatively in human, animal, plant and microbial systems.

3 lecture hours/week, 1 tutorial hour/week, 0 lab hours

OUTLINE OF TOPICS

Mendel's Laws
Chromosome Theory of Inheritance
Gene Interactions
Linkage and Mapping
Gene Mutations
Chromosome Mutations
Bacterial Genetics
DNA Structure and Function
The Genetic Code
Control of Gene Expression
Population Genetics

REQUIRED TEXT

Griffiths et al., Introduction to Genetic Analysis. 9th Edition (early editions are not acceptable)

MARK DISTRIBUTION

Grades will be based on problem sets and tutorial attendance/participation (10%), two Midterm exams (25% each) and a cumulative Final exam (40%).

¹Prerequisite Minimum Grade Requirement: Unless stated, a grade of C- or better is required on all Prerequisite BISC & MBB courses.