

# GENETICS (GENETICS)

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## GENETICS 200A Principles of Genetics (3 Units) Winter

*Instructor(s):* Joseph Bondy-Denomy

*Prerequisite(s):* None

*Restrictions:* Instructor approval required

*Activities:* Lecture

In-depth analysis of genetic mechanisms in selected prokaryotes and eucaryotes. Topics include recombination, forward and reverse screens including suppressor and enhancer screens, mapping, epistasis analysis, RNAi, CRISPR, meiotic and mitotic segregation.

**School:** Graduate Division

**Department:** Biochemistry And Molecular Biology Program

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** Yes

**Course Grading Convention:** Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** Yes

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes

**Repeat course for credit?** No

## GENETICS 250 Research (1-8 Units) Fall, Winter, Spring, Summer

*Instructor(s):* Staff

*Prerequisite(s):* Completion of 2 quarters of Biochem 215 in the year prior

*Restrictions:* Students must be in year 2 or above

*Activities:* Independent Study, Lab science

The course is intended to give students hands-on experience in investigation of a fundamental question in biology using modern techniques and approaches in Genetics. The scope of the research project, formulation of the hypothesis, and the necessary experimental approaches taken to test the hypothesis will be determined based on active input from the student and the lab's Principle Investigator. The student is expected to become increasingly independent in each of these aspects of the project.

**School:** Graduate Division

**Department:** Genetics Program

**May the student choose the instructor for this course?** Yes

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** Yes

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes

**Repeat course for credit?** Yes