GENETICS (GENETICS)

GENETICS 200A  Principles of Genetics (3 Units) Winter
Instructor(s): David Toczyski
Prerequisite(s): None

Restrictions: Instructor approval required
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

In-depth analysis of genetic mechanisms in selected procaryotes and eucaryotes. Topics include recombination, forward and reverse screens including suppressor and enhancer screens, mapping, epistasis analysis, RNAi, CRSIPR, 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? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes

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: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

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? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes