

GENETICS (GENE)

GENE 200 (s) Seminar (1-16 credits)

Credit arranged

GENE 207 Introduction to Biotechnology (3 credits)

Cross-listed with PLSC 207

Offers an overview of modern biotechnology, focusing on basic concepts and applications of biotechnology with regards to plants, animals, environment and microorganisms, and medicine. Recommended preparation: CHEM 101 or CHEM 111. (Fall, alt/even years)

GENE 299 (s) Directed Study (1-16 credits)

Credit arranged

GENE 314 General Genetics (3 credits)

Principles of molecular genetics, microbial genetics, cytogenetics, qualitative genetics, quantitative genetics, and population genetics. (Spring only)

Prereqs: BIOL 115 or Permission

GENE 400 (s) Seminar (1-16 credits)

Credit arranged

GENE 440 Advanced Laboratory Techniques (4 credits)

Cross-listed with PLSC 440

Intensive hypothesis-driven laboratory course that will prepare the student for research in molecular biology; emphasis on areas of microbial physiology, microbial genetics, immunology, and pathogenic microbiology. (Spring only)

Prereqs: BIOL 250.

GENE 488 Genetic Engineering (3 credits)

Cross-listed with PLSC 488

Joint-listed with GENE 588 and PLSC 588

Techniques and theory underlying practical genetic modifications of plants, microbes, and animals. Extra oral and/or written assignments required for graduate credit. Recommended Preparation: BIOL 380. (Fall only)

Prereqs: GENE 314 or BIOL 310.

GENE 499 (s) Directed Study (1-16 credits)

Credit arranged

GENE 501 (s) Seminar (1-16 credits)

Credit arranged

GENE 502 (s) Directed Study (1-16 credits)

Credit arranged

GENE 588 Genetic Engineering (3 credits)

Cross-listed with PLSC 588

Joint-listed with GENE 488 and PLSC 488

Techniques and theory underlying practical genetic modifications of plants, microbes, and animals. Extra oral and/or written assignments required for graduate credit. Recommended Preparation: BIOL 380. (Fall only)

Prereqs: GENE 314 or BIOL 310.