

GENETICS (GENE)

GENE 2000 (s) Seminar (1-16 credits, max 99)

Credit arranged

GENE 2070 Introduction to Biotechnology (3 credits)

Cross-listed with PLSC 2070

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 1101 or CHEM 1111. Typically Offered: Fall (Even Years).

GENE 2990 (s) Directed Study (1-16 credits, max 99)

Credit arranged

GENE 3140 General Genetics (3 credits)

Principles of molecular genetics, microbial genetics, cytogenetics, qualitative genetics, quantitative genetics, and population genetics. Typically Offered: Spring.

Prereqs: BIOL 1150 or Permission

GENE 4000 (s) Seminar (1-16 credits, max 99)

Credit arranged

GENE 4400 Advanced Laboratory Techniques (4 credits)

Cross-listed with PLSC 4400

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. Typically Offered: Spring.

Prereqs: BIOL 2500

GENE 4880 Genetic Engineering (3 credits)

Cross-listed with PLSC 4880

Joint-listed with GENE 5880, PLSC 5880

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 3800. Typically Offered: Fall.

Prereqs: GENE 3140 or BIOL 3100

GENE 4990 (s) Directed Study (1-16 credits, max 99)

Credit arranged

GENE 5010 (s) Seminar (1-16 credits, max 99)

Credit arranged

GENE 5020 (s) Directed Study (1-16 credits, max 99)

Credit arranged

GENE 5880 Genetic Engineering (3 credits)

Cross-listed with PLSC 5880

Joint-listed with GENE 4880, PLSC 4880

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 3800. Typically Offered: Fall.