

ADDITIONAL COURSES WITH A GENETIC COMPONENT

[Please consult the General Catalog and/or the quarterly Class Schedule & Registration Guide to verify this information.]

General Genetics

Graduate

- AVS 298 (F) Avian Development & Genetics (F11 CRN 54575)
- PLS 222 (Sp) Advanced Plant Breeding

Upper Division Undergraduate

- ANG 107 (F) Genetics & Animal Breeding
- ANT 151 Primate Evolution
- ANT 152 Human Evolution
- AVS 103 Avian Development & Genetics
- BIT 160 (W) Plant Biotechnology
- ETX 198 (W) Genes and the Environment
- MCB 121 (W/Sp) Molecular Biology of Eukaryotic Cells
- MCB 162 (F) Human Genetics
- MCB 163 (W) Developmental Genetics
- MCB 164 (Sp) Advanced Eukaryotic Genetics
- MIC 150 (W) Bacterial Genetics
- MIC 170 (Sp) Yeast Molecular Genetics
- PLS 152 (F) Plant Genetics
- PLS 154 (W) Introduction to Plant Breeding

Molecular Genetics

Graduate

- ANG 212 (W) Sequence Analysis in Molecular Genetics (*alternate years*)
- MCB 210 (F) Molecular Genetics & Genomics
- MCB 255 (Sp) Molecular Mechanisms in Pattern Formation & Development
- MCB 256 (F) Cell and Molecular Biology of Cancer
- MCB 257 (F) Cell Proliferation and Cancer Genes
- MCB 263 (W) Biotechnology Fundamentals & Applications
- MIC 200A (F) Biology of Prokaryotes
- MIC 215 (F) Recombinant DNA
- MIC 250 Biology of Yeasts (*not offered every year*)
- MIC 263 Principles of Protein-Nucleic Acid Interactions (*not offered every year*)
- PBI 227 (W) Plant Molecular Biology

Upper Division Undergraduate

- ANG 111 (F) Molecular Biology Laboratory Techniques
- BIS 102 (F/W/Sp) Structure and Function of Biomolecules
- MCB 121 (F/W/Sp) Advanced Molecular Biology
- MCB 126 (W) Plant Biochemistry
- MCB 160L (F/W/Sp) Principles of Genetics Laboratory
- NPB 161 (Sp) Developmental Neurobiology
- PLB 113 (Sp) Molecular & Cellular Biology of Plants

Cytogenetics

Graduate

- PLS 221 (Sp) Genomics & Breeding of Vegetable Crops

Upper Division Undergraduate

- ANG 101 Animal Cytogenetics

Population Genetics

Graduate

- EVE 210 Molecular Phylogenetic Analysis (*alternate years*)
- PBG 200A (F) Principles of Population Biology
- PGB 200B (W) Principles of Population Biology
- PGB 200C (Sp) Principles of Population Biology

Conservation and Ecological Genetics

Graduate

ECL 208 (W) Issues in Conservation Biology
PHR242/ECL242 (W) Ecological Genetics
ECL2XX Landscape Genetics w/GIS (*in process*)
PHR 243 (F) Advanced Topics in Conservation Genetics

Upper Division Undergraduate

ANT 153 Human Biological Variation
EVE 102 (F) Population and Quantitative Genetics

Quantitative Genetics

Graduate

ANG 204 (Sp) Theory of Quantitative Genetics (*alternate years*)
ANG 206 (Sp) Advanced Domestic Animal Breeding (*alternate years*)
PLS 220/GGG 220 Genomics & Biotechnology of Plant Improvement

Medical Genetics

Graduate

PHA 225 Gene Therapy (Sp; *alternate yrs w/ PHA 250*)
PHA 250 Functional Genomics: From Bench to Bedside (Sp: *alternate yrs w/PHA 250*) (*offered Sp 12*)

Evolutionary Genetics

Upper Division Undergraduate

EVE 100 (F/W/Sp) Introduction to Evolution
EVE 103 (W) Phylogeny and Macroevolution (*alternate years*)

Biotic Stresses in Plants

Graduate

PLP 210 (F) Biochemistry & Molecular Biology of Plant-Microbe Interaction

Upper Division Undergraduate

PLP123/PLB123/ENT123 (F) Plant-Virus-Vector Interaction

Human/Primate Genetics

Graduate

ANT 252 Human Evolution Seminar

Upper Division Undergraduate

ANT 153 Human Biological Variation
ANT 157 Anthropological Genetics
ANT 157L Laboratory in Anthropological Genetics
MCB 162 (F) Human Genetics

Statistics/Bioinformatics

Graduate

STA 226 (W) Statistical Methods for Bioinformatics

Upper Division Undergraduate

ECS 124 (Sp) Theory & Practice of Bioinformatics
STA 100 (F/W/Sp) Applied Statistics for Biological Sciences
STA 131A (F/W/Sp) Introduction to Probability Theory

Forensic Sciences

Graduate

FOR 280 (W) Forensic DNA Analysis
FOR 281 (Sp) Principles & Practice of Forensic DNA Typing

Graduate Seminar Courses

AVS 290 (F/Sp) Seminar in Avian Genetics, Physiology, etc.
BCM 291 (F/W/Sp) Seminar in Genetic Approaches to Pathogenesis of Human Disease
MIC 274 (F/W/Sp) Seminar in Genetic Recombination (*not offered every year*)

