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
- PBG 200B (W) Principles of Population Biology
- PBG 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)
MIC 275 (F/W/Sp) Seminar in DNA Repair & Recombination