Genetics (17GNNM)

Description
The Department of Genetics offers an undergraduate Minor in Genetics to provide students with strong preparation in the principles of Genetics and Molecular Biology, as well as preparation in ancillary fields such as Statistics and Biochemistry. This Minor is appropriate for (but not limited to) students with majors in Plant and Soil Sciences, Animal Science, Biochemistry, Biological Sciences, Crop Science, Environmental Technology, Microbiology, Natural Resources, Nutrition Science, Plant Biology, Poultry Science, and Zoology.

Requirements
- Completion of 18 credit hours; 15 required and three (3) elective.
- A grade of ‘C’ or better is required for all Genetics Minor courses.

Specified Courses (12 credit hours)
- GN 311 (previously GN 411) Principles of Genetics (4 cr)
- GN 312 Elementary Genetics Laboratory (1 cr)
- ST 311 Introduction to Statistics (3 cr) OR
- ST 371 Introduction to Probability & Distribution Theory (3 cr)
- BCH 351 General Biochemistry (4 cr) OR
- BCH 451 Principles of Biochemistry (4 cr)

Restricted Elective Courses (3 credit hours)
- GN 421 Advanced Genetics/Molecular Genetics (3 cr) OR
- GN 423 Population, Quantitative and Evolutionary Genetics (3 cr)

Unrestricted Elective Courses (3 credit hours)
- GN 421 † Molecular Genetics (3 cr)
- GN 423 † Population, Quantitative, and Evolutionary Genetics (3 cr)
- GN 427 Introductory Bioinformatics (3)
- GN 461 Advanced Bioinformatics (3)
- GN 434 Genes and Development (3 cr) (prereq: GN 421)
- GN 441 Human and Biomedical Genetics (3 cr) (prereq: GN 421)
- GN 451 Genome Science (3 cr) (prereq: GN 423)
- GN 490 Genetics Colloquium (1 cr) (prereq: GN 421)
- GN 492 ‡ External Learning Experience (1-3 cr)
- GN 493 ‡ Special Problems in Genetics (1-3 cr)
- ALS 498 ‡ Honors Research (1-3 cr)
- ALS 499 ‡ Honors Research (1-3 cr)

† If not taken as one of the Restricted Elective courses.
‡ The courses must involve a genetics topic that is approved by the UG Coordinator.

Admissions
Students may declare their intention to complete the Genetics minor by consulting with Dr. Gardner as listed below. Students are strongly encouraged to declare the minor early in their programs so they receive information on Genetics courses and activities from the Undergraduate Coordinator.

Certification

The advisor will certify the minor prior to graduation. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. Paperwork for certification should be completed no later than during the registration period for the student’s final semester at NC State.

Contact Person

Dr. Betty Gardner
2526A Thomas Hall
919.515.5776
bgardner@ncsu.edu

SIS Code: 17GNM