

Genetics (17GNM)

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, Computer Science, Crop Science, Environmental Technology, Mathematics, Microbiology, Natural Resources, Nutrition Science, Plant Biology, Poultry Science, and Zoology.

Requirements

- Completion of 17 credit hours; 11 required and six (6) elective.
- A grade of 'C' or better is required for all Genetics Minor courses.

Specified Courses (11 credit hours)

- GN 311 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)
- GN 421 Advanced Molecular Genetics (3 cr)

Elective Courses (6 credit hours)

- GN 423 † Population, Quantitative, and Evolutionary Genetics (3cr)
- GN 427 Introductory 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 456 Epigenetics, Development and Disease (3 cr)
- + Genetics Research/Teaching Experience (3 cr)

+Course options include GN 496, GN 497, BSC 498, and ALS 499, must involve a genetics topic, and must be approved in writing by the Director of the Undergraduate Genetics Program prior to beginning the project.

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.

Contact Person

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