

Genetics (Minor)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

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.

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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SIS Code: 17GNM

Plan 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.

Code	Title	Hours	Counts towards
Specified Courses			
GN 311	Principles of Genetics	4	
GN 312	Elementary Genetics Laboratory	1	
ST 311	Introduction to Statistics	3	
or ST 371	Introduction to Probability and Distribution Theory		
GN 421	Molecular Genetics	3	
Elective Courses			
Select two of the following:		6	

GN 423	Population, Quantitative and Evolutionary Genetics
GN 427	Introductory Bioinformatics
GN 434	Genes and Development
GN 441	Human and Biomedical Genetics
GN 451	Genome Science
GN 456	Epigenetics, Development, and Disease
Genetics Research/Teaching Experience (3 cr) ¹	
Total Hours	17

- ¹ Course options include GN 496 Genetics Research Experience, GN 497 Genetics Teaching Experience, BSC 498 Biological Sciences Honors Project Part 2, and ALS 499 Honors Research or Teaching II, must involve a genetics topic, and must be approved in writing by the Director of the Undergraduate Genetics Program prior to beginning the project.