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

Dr. Betty Gardner
2532 Thomas Hall
919.515.5776
bgardner@ncsu.edu

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GN 311</td>
<td>Principles of Genetics</td>
<td>4</td>
</tr>
<tr>
<td>GN 312</td>
<td>Elementary Genetics Laboratory</td>
<td>1</td>
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<tr>
<td>ST 311</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or ST 371</td>
<td>Introduction to Probability and Distribution Theory</td>
<td>3</td>
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<tr>
<td>GN 421</td>
<td>Molecular Genetics</td>
<td>3</td>
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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

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<th>Code</th>
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<th>Hours</th>
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<tr>
<td>Total Hours</td>
<td>17</td>
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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.