BIOLOGY, B.A.

The Department offers a full range of courses leading to the B.A. degree. The degree may lead to further study in graduate school, medicine, dentistry, veterinary medicine, medical technology, biotechnology, and environmental biology. See also Preprofessional Programs. Both study and laboratory facilities are available to advanced undergraduates.

Overall Requirements

• 122 credit hours, to include at least 36 credits at or above the 300 course level; note that licensure programs may require hours beyond the minimum listed.
• Students must have a grade point average of at least 2.0 in Biology courses completed at UNC Greensboro.
• A minimum of 30 credits of Biology course above the 100 level.
• A maximum of 4 credits at the 200 level may be counted toward the major.

Degree Program Requirements

Code | Title | Credit Hours
--- | --- | ---
University Requirements (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies)
General Education Core Requirements (GEC) (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/general-education-program/#generaleducationcorerequirementstext)
College of Arts and Sciences Additional Requirements (LEC) (https://catalog.uncg.edu/arts-sciences/#additionalundergraduaterequirementstext)

Major Requirements

Code | Title | Credit Hours
--- | --- | ---
Program Qualifications
BIO 111 | Principles of Biology I † | 8
BIO 111L | Principles of Biology I Laboratory |
BIO 112 | Principles of Biology II †† |
BIO 112L | Principles of Biology II Laboratory |
Core Courses * | | 16
BIO 301 | Principles of Ecology |
BIO 355 | Cell Biology |
BIO 392 | Genetics |
BIO 330 | Evolution |
BIO 315 | Ecology and Evolution Laboratory |
BIO 375 | Cell Biology and Genetics Laboratory |
Related Area Requirements | | 11
CHE 111 | General Chemistry I † |
CHE 112 | General Chemistry I Laboratory |
CHE 114 | General Chemistry II |
CHE 115 | General Chemistry II Laboratory |
MAT 151 | Precalculus II ††† |
or MAT 191 | Calculus I |
Capstone Requirement
Complete BIO 401 - 499, or equivalent

Recommended

The department highly recommends the course listed below in addition to the required courses listed above.

Code | Title | Credit Hours
--- | --- | ---
CHE 351 | Organic Chemistry I |
CHE 352 | Organic Chemistry II |
CHE 354 | Organic Chemistry Laboratory |
MAT 191 | Calculus I ††† |
MAT 292 | Calculus II |
STA 271 | Fundamental Concepts of Statistics |
PHY 211 | General Physics I |
PHY 212 | General Physics II |

Comprehensive Science High School Teaching Licensure Concentration Requirements

The Comprehensive Science High School Licensure program provides a strong background in biology as well as licensure for high school biology teaching. In addition, successful completion of this program qualifies candidates to teach other high school science subjects as well.

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Students seeking admission to the UNC Greensboro Teacher Education Program with a major in Biology must meet the following minimum requirements of the Department of Biology.

1. Completion of a minimum of 9 credit hours in biology courses, with at least six of those hours from courses taken at UNCG
2. A grade point average of at least 2.50 for biology courses completed at UNCG

Students already admitted to the UNC Greensboro Teacher Education Program with a major in Biology who are seeking admission to Student Teaching must meet the following requirements of the Department of Biology.

1. Completion of a minimum of 18 credits of biology courses, with at least 15 of those credits from courses taken at UNC Greensboro
2. A grade point average of at least 2.50 for biology courses completed at UNC Greensboro
## Biology, B.A.

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<thead>
<tr>
<th>Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>GES 103</td>
<td>Introduction to Earth Science</td>
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**Select** 3–12

Select one or more of the following:

- GES 111 Physical Geology
- GES 205 Environmental Change: Its Nature and Impact
- GES 319 Weather and Climate
- GES 314 Physical Geography: Landscape Processes

**Teacher Education** 28

- TED 535 Literacy in the Content Area
- ERM 401 Assessment I: Accountability in Our Nation’s Schools
- ERM 402 Assessment II: Standardized Tests
- ERM 403 Assessment III: Classroom Assessment
- TED 401 Child and Adolescent Development and Learning
- SES 401 Understanding and Teaching Students with Disabilities in Inclusive Settings
- TED 403 Teaching English Learners with Diverse Abilities
- TED 445 Human Diversity, Teaching, and Learning
- TED 559 Teaching Practices and Curriculum in Science
- TED 465 Student Teaching and Seminar: Secondary School
- LIS 120 Introduction to Instructional Technology for Educational Settings (strongly recommended)

* The following courses must be taken in a specified sequence terminating in student teaching in the spring semester of the senior year. See the online Secondary Education Handbook for more information.

### Electives

Electives sufficient to complete the 122 credit hours required for the degree.

### Biology as a Second Academic Concentration

- Minimum of 18 credit hours

The second academic concentration in Biology is designed specifically for Elementary Education students.

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<tr>
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</tr>
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<td>Principles of Biology II Laboratory</td>
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</tbody>
</table>

**Select** 9

Select three from the following core biology courses:

- BIO 301 Principles of Ecology
- BIO 355 Cell Biology
- BIO 392 Genetics

* Completion of these courses may also count toward completion of the 18 credit requirement.
† Counts toward GEC GNS requirement.
‡ Counts toward CAR GLS/GPS requirement.