

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		8
BIO 111	Principles of Biology I [†]	
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	

* In meeting the requirement for hours above the 100 level, all B.A. in Biology majors must complete the following core courses; completion of at least four of these requirements is strongly recommended prior to enrollment in courses numbered 400 and higher.

† Counts toward GEC GNS requirement.

†† Counts toward LEC GLS/GPS requirement.

††† Counts toward GEC GMT requirement.

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

Code	Title	Credit Hours
Required		
GES 103	Introduction to Earth Science	
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.

Code	Title	Credit Hours
Required		
8		
BIO 111	Principles of Biology I [†]	
BIO 111L	Principles of Biology I Laboratory	
BIO 112	Principles of Biology II ^{††}	
BIO 112L	Principles of Biology II Laboratory	
Select		
9		
Select three from the following core biology courses:		
BIO 301	Principles of Ecology	
BIO 355	Cell Biology	
BIO 392	Genetics	

BIO 330	Evolution	
Select *		
3		
Select one from the following:		
BIO 271	Human Anatomy	
BIO 277	Human Physiology	

* *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.*