Biology Major: Biology Concentration  
(BIOL)—B.S.
Degree: Bachelor of Science
Required: 122 semester hours, to include at least 36 hours at or above the 300 course level
AOS Code: Biology, U116
The Bachelor of Science degree is offered for those students aspiring to a professional career in biology, and for those students with particularly strong interests in the discipline.

See also Preprofessional Programs.

A student pursuing the Bachelor of Science is expected to develop a stronger background in mathematics and related sciences and to attain a greater understanding of biology than will a student pursuing a Bachelor of Arts degree. Bachelor of Science students will also be strongly encouraged to undertake an individual research project with a faculty member during their junior and/or senior year.

I General Education Core Requirements (GEC)
See complete GEC requirements under General Education Program in the University Requirements section. See the GEC Course Summary Table for approved courses.

GLT—Literature (6 s.h.)
Student selects 6 s.h. from GLT list.
GFA—Fine Arts (3.s.h.)
Student selects 3 s.h. from GFA list.
GPR—Philosophical, Religious, Ethical Principles (3 s.h.)
Student selects 3 s.h. from GPR list.
GHP—Historial Perspectives on Western Culture (3 s.h.)
Student selects 3 s.h. from GHP list.
GNS—Natural Sciences (7 s.h.)
BIO 111 Principles of Biology I
CHE 111 General Chemistry I
GMT—Mathematics (3 s.h.)
MAT 191 Calculus I
GRD—Reasoning and Discourse (6 s.h.)
ENG 101 College Writing I
or
FMS 115 Freshman Seminar in Reasoning and Discourse I
or
RCO 101 College Writing I
Student selects additional 3 s.h. from the GRD list.
GSB—Social and Behavioral Sciences (6 s.h.)
Student selects 6 s.h. from GSB list.

II General Education Marker Requirements
See complete GEC requirements under General Education Program in the University Requirements section. See the GEC Course Summary Table for approved courses.

GL/GN—Global/Global Non-Western Perspectives
Four courses carrying GL/GN markers, at least one of which must carry the GN marker.

One SI (Speaking Intensive) Course
In addition to this SI Marker requirement, students must also complete a second SI course within the major. All programs have identified at least one course among their major requirements that is taught as Speaking Intensive.

One WI (Writing Intensive) Course
In addition to this WI Marker requirement, students must also complete a second WI course within the major. All programs have identified at least one course among their major requirements that is taught as Writing Intensive.

III College of Arts and Sciences Additional Requirements (CAR)
See CAR requirements in the Academic Units section. See the GEC Course Summary Table for approved CAR courses.

GMO/GPM—Historical Perspectives (3 s.h.)
Student selects 3 s.h. from GMO or GPM list, depending on category used to satisfy GHP requirement.

GLS/GPS—Natural Sciences (3–4 s.h.)
Required:
BIO 112 Principles of Biology II
GSB—Social and Behavioral Sciences (3 s.h.)
Student selects 3 s.h. from GSB list.
GFL—Foreign Language (0–12 s.h.)
Intermediate-level proficiency in one language, demonstrated by placement test, or completion of course work through course number 204.

WI—Writing Intensive Courses
A total of four WI courses.
IV Major Requirements

Program Qualifications
BIO 111 Principles of Biology I
BIO 112 Principles of Biology II

Additional Qualifications
• A minimum of 30 semester hours of Biology courses above the 100 level.
• A maximum of 4 s.h. at the 200 level may be counted toward the major.
• Students must have a grade point average of at least 2.0 in Biology courses completed at UNCG.

B.S. in Biology Core Courses
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.

1. Ecology
   BIO 301 Principles of Ecology
2. Cell Biology
   BIO 355 Cell Biology
3. Genetics
   BIO 392 Genetics
4. Evolution
   BIO 330 Evolution
5. Two laboratory courses
   BIO 315 Ecology and Evolution Laboratory
   BIO 375 Cell Biology and Genetics Laboratory
6. One additional course at the 500 level

Strongly Recommended
BIO 499 Undergraduate Research
BIO 493 Honors Work

V Related Area Requirements
1. Required
   CHE 111 General Chemistry I
   CHE 112 General Chemistry I Laboratory
   CHE 114 General Chemistry II
   CHE 115 General Chemistry II Laboratory
   CHE 351 Organic Chemistry I
CHE 352 Organic Chemistry II
CHE 354 Organic Chemistry Laboratory

2. Required
MAT 191 Calculus I
MAT 292 Calculus II
or
STA 271 Fundamental Concepts of Statistics

3. Required
PHY 211 General Physics I
and
PHY 212 General Physics II
or
PHY 291 General Physics I with Calculus
and
PHY 292 General Physics II with Calculus

VI Electives
Electives sufficient to complete the 122 semester hours required for the degree.