Biology Major: Environmental Biology
Concentration (BIOL)—B.S.
Degree: Bachelor of Arts
Required: 122 semester hours, to include at least 36 hours at or above the 300 course level
AOS Code: U118
This concentration is designed for students with a strong interest in environmental biology. The concentration provides students with a breadth and depth of environmental awareness, rigorously prepares them for advanced studies in environmental biology and trains them for environmentally oriented professions.

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.
Biology

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.
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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
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

Environmental Biology Concentration
1. Required  
   BIO 431 The Biosphere  
2. One course chosen from the advanced Biology courses listed below.  
   BIO 361 Biology and Conservation of Sea Turtles  
   BIO 422 Plant Diversity  
   BIO 441 Invertebrate Zoology  
   BIO 470 Vertebrate Zoology  
   BIO 554 Vascular Plant Systematics  
3. At least one additional course chosen from the advanced Biology courses listed below.
   BIO 420 Marine Biology  
   BIO 438/PSY 438 Animal Behavior
BIO 501 Advanced Topics in Animal Ecology
BIO 505 Advanced Topics in Ecological Physiology
BIO 510 Advanced Topics in Plant Ecology
BIO 520 Ecosystem Ecology and Biogeochemistry
BIO 522 Landscape Ecology
Biology

BIO 526 Conservation Biology
BIO 528 Microbial Ecology
BIO 529 Aquatic Ecology
BIO 538 Human Evolutionary Genetics
BIO 541 Entomology
BIO 552 Metamorphosis
BIO 560 Symbiosis
BIO 579 Environmental Physiology

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