BIOLOGY*

The Biology major offers a Bachelor of Science degree that strives to produce graduates who are prepared to enter graduate or professional school, immediate technical employment, or other careers that are based in science. The Biology Major is comprehensive and involves not only collecting data from the natural world, but interpreting and presenting data so that society can make informed choices about organisms and ecosystems. Understanding biodiversity and how organisms function are integral to the biology major. Biologists study how life operates.

Our graduates are competitive with graduates from large research universities as well as other liberal arts institutions.

Students interested in pursuing advanced degrees in medicine, dentistry, pharmacy, nursing, or veterinary medicine should complete 1 full year of English, biology, chemistry, organic chemistry, and physics, as per the Association of American Medical Colleges, and should check with their schools of choice for any other required undergraduate courses.

REQUIRED BIOLOGY COURSES		**33 Semester Hours**
BIO 110	General Biology: Ecology and Evolutionary Biology	4
BIO 120	General Biology: Cellular and Molecular Biology	4
BIO 240	Biodiversity	4
SCI 494 or 469	Senior Project I or Senior Internship	2
SCI 495	Senior Project II	2
Select 8 hours from cellular level courses:		
BIO 310	Developmental Biology	4
BIO 320	Genetics	4
CHE 301	Biochemistry	4
Select 9 hours from organismal and ecological level courses:		
BIO 281	Animals & Plants of the Southern Appalachians, Fall	3
BIO 282	Animals & Plants of the Southern Appalachians, Spring	3
BIO 330	Evolutionary Biology	3
BIO 340	Conservation Biology	3
ECOL 245	General Ecology	4
ECOL 355	Agroecology	3

REQUIRED MATHEMATICS & NATURAL SCIENCE COURSES	**23-24 Semester Hours**
Select one MAT course above MAT 111 (MAT 141 or MAT 211 and 221 recommended)	3-4
CHE (Select four lab-based courses above CHE 102; note that professional schools require CHE 103, 104, 201, 202 with labs; CHE 301 may not count both here and in Required Biology courses)	16
Select a physical science, lab-based course: GEOL or PHYS (Note that professional schools require PHYS 103 ***and*** 104 with labs)	4

TOTAL HOURS REQUIRED **MINIMUM 56-57 SEMESTER HOURS**

*A student may not earn a B.S. degree in both Environmental Studies and Biology.