

BIOLOGY, B.S.

Requirements

Requires at least 34 hours in the department.

Code	Title	Hours
Required Major Courses		
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
Select at least three 300-level four-hour Biology courses		12
BIO 390 or BIO 391	Mentored Research or Independent Research	2
Additional hours in Biology beyond BIO 201		12
Co-Requirements		
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
STA 111	Elementary Probability and Statistics *	4
Choose three of the following **		9-12

* STA 111 is recommended, but this co-requirement may also be fulfilled by one of the following: HES 262, PSY 211, SOC 271, or STA 112. BIO 380 may be used to fill this requirement, but in that case cannot be counted toward the major requirement as hours in biology. Similarly STA 112 may be used to fill this requirement but in that case cannot be counted towards the major requirement as an "other" co-requisite course.

** Note that co-requirements cannot be satisfied with courses that are cross-listed between Biology and another department or between Biology and the BMB major. Co-required courses may be used to satisfy a minor in another department or interdisciplinary program but cannot be counted toward a second major. Note that some of the courses listed may have non-BIO prerequisites.

Code	Title	Hours
Any CHM course at the 100-, 200-, or 300-level except CHM 108, 301, 302, 381, 390, 391, 392, or CHM 395		
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
MTH 111	Calculus with Analytic Geometry I	4
MTH 112	Calculus with Analytic Geometry II	4
MTH 113	Multivariable Calculus	4
MTH 117	Discrete Mathematics	4
PHY 113	General Physics I	4
PHY 114	General Physics II	4
PHY 123	General Physics I - Studio Format	4
PHY 124	General Physics II - Studio Format	4
STA 112	Introduction to Regression and Data Science	3

For the B.S. major, the schedule of biology and related courses is flexible. After completing BIO 150, BIO 150L, BIO 160, and BIO 160L, students should select courses from the 200- and 300-levels in accord with their interests and career goals. It is recommended that all prospective

majors take CHM 111 and CHM 111L in the fall of the first year and complete BIO 150 and BIO 150L and STA 111 or an equivalent course during either the fall or spring of the first year. Students taking the B.S. major with an interest in a health profession career are additionally advised to take CHM 122 and CHM 122L in the spring of the first year. These students should select additional co-requirements after consulting with a health professions adviser.

A maximum of four hours of 390-sequence courses (except BIO 399) may be counted as hours in the major, but an additional four hours may be taken and applied toward graduation as elective hours. A minimum GPA of 2.0 in biology courses taken at Wake Forest is required for graduation with a major in biology. The Biology Department may require participation in assessment activities as part of ongoing program evaluation.

Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in biology during the Fall Semester of their senior year. To be graduated with the distinction "Honors in Biology," a graduating student must have a minimum GPA of 3.0 in all courses and a 3.3 in biology courses. In addition, the student must submit an honors paper describing his or her independent research project, written in the form of a scientific paper, which must be submitted to and approved by an advisory committee. Students are also required to make a short oral presentation to the Biology department at the end of Spring Semester. Specific details regarding the honors program, including selecting an advisor and an advisory committee, deadlines, and writing of the honors thesis, may be obtained from the chair of the departmental Undergraduate Research Committee.