

B.S. in Biology and Associated Tracks (GENB, BBOT, BENV, BMOL, BZOO)

Freshman Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
UNV 1000	Freshman Seminar	1		ENG 1060	Composition II	3
ENG 1050	Composition I	3		CHM 1300	General Chemistry	3
MAT 1070 or MAT 1090	College Algebra or Precalculus	3 or 4		CHM 1100	General Chemistry Laboratory I	1
BIO 1000*	Principles of Biology	3		BIO 1010 or BIO 1020	General Botany or General Zoology	4
BIOL 1000	Lab. Inv. & Exp. in Gen. Bio.	1		General Education (ICC) ¹	Social Science	3
General Education	Fine Arts	3				
Total Credits		14-15		Total Credits		14

Sophomore Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
BIO 1010 or BIO 1020	General Botany or General Zoology	4		General Education	Philosophy and Religion	3
CHM 1310	General Chemistry II	3		General Education	Literature	3
CHM 1110	General Chemistry Laboratory II	1		MAT 2150 or MAT 2210	Calculus with applications or Calculus I	4
General Education (ICC) ¹	History	3		BIO 3040	Principles of Ecology	4
General Education	Physical Education	1		General Education	Physical Education	1
General Education	Elective	3				
Total Credits		15		Total Credits		15

Junior Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
BIO 2180	Principles of Genetics	4		Biology Track Elective ³		3-4
General Education	Social Science	3		University Wide Elective		3
BIO 4700 (WD) ²	Reading and Writing in the Natural Sciences	3		General Education	Social Science	3
University Wide Elective ⁴		3		University Wide Elective ⁴		3
MAT 2100	Introduction to Statistics	3		University Wide Elective ⁴		3
Total Credits		16		Total Credits		15-16

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 3710 (WE) ²	Cell Biology	4		Biology Track Elective ³		3-4
	Biology Track Elective ³		3-4		University Wide Elective ⁴		3
	University Wide Elective ⁴		3		University Wide Elective ⁴		3
	University Wide Elective ⁴		3		University Wide Elective ⁴		3
	University Wide Elective ⁴		3		University Wide Elective ⁴		3
Total Credits			16-17	Total Credits			15-16

¹ **Indigenous Cultures and Communities (ICC):** Students entering the university in Fall 2023 or later shall complete the ICC requirement for graduation. Students may satisfy this requirement by completing two 3-credit hour ICC-designated courses. Students who transfer over 60 or more hours shall complete one 3-credit hour ICC course. Designated ICC courses can satisfy other graduation requirements such as major electives and gen. eds.

² **Writing Intensive Program:** Students must complete a combined total of 9 credit hours of Writing Enriched (WE) and Writing in the Discipline (WD) coursework. One course must be a WD course (of any number of credits) and can be BIO 4700 or any other WD course. This degree also includes 1 required course that counts as WE: BIO 3710. The WE coursework can come from any discipline. Double majors need only fulfill the Writing Intensive Program requirement once. It is recommended that you “double dip” by taking a General Education Requirement or Bio Elective that is also designated as WE. NOTE: Successful completion (grade of “C” or better) of ENG 1050 is a prerequisite for all WE or WD courses.

³ **Approved BIO Elective:** Students may take any of the courses from the list below to fulfill their Biology elective option. If students have declared a track, they must pick only electives that fall within the track. Biology electives must add up to 11-12 hours. **Bolded** courses may be offered as Writing Enriched (*see bottom of pg. 2 for more details). Ensure the section you select has the WE attribute on the course schedule on BraveWeb. *Italicized* courses may be offered as Indigenous Cultures & Communities (ICC)-designated (*see pg. 2). Ensure the section you select has the ICC attribute on the course schedule on BraveWeb.

Many courses are only offered every other year and in spring OR fall. All students should review the Biology Course Catalog to see availability.

- **General Biology Track (GENB):** any BIO, BIOS, ENV, BTEC, or BTECS course 2000 or above level except BIO 4700, BIOS 2202 (COMPASS II) and BTECS 3720 (RISE) courses
- **Botany Track (BBOT):** BIO 2010, 2020, 2080, *3015 (ICC)*, 3400, 3540, ENV 2200, 2400
- **Zoology Track (BZOO):** BIO 2040, **2050 (WE)**, 2060, 2410, 2420, 2500, *3010 (ICC)*, *3100 (ICC)*, 3190, 4100, **4610 (WE)**, ENV 2300
- **Molecular Biology Track (BMOL):** BIO 3150, 3540, 3750, 3810, 4130, 4610, BTEC 3220
- **Environmental Biology Track (BENV):** BIO 2080, 2500, *3010 (ICC)*, 3400, 3420, 4100, **4320 (WE/ICC)**, ENV 2200, 2300, 2400, 3100. Note -- ENV 4100 Environmental Laws and Regulations **is not allowed** as one of the courses needed for a Biology degree with the Environmental Biology Track.

⁴ **University wide Electives:** University wide electives can be any course in any department at the university. These are required to reach the 120 hours needed for graduation. These can also be used to form a minor.

Additional Notes

- **ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED**
- ***Note:** C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major
- Twelve hours of natural sciences and mathematics within this degree count toward gen. ed. requirements. Students should only take those natural sciences and mathematics courses required by the degree program.
- QPA Requirements for Baccalaureate Graduation: “Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at the University of North Carolina at Pembroke; Have a minimum overall cumulative quality point average of 2.0 in the major field of study”