

**Bachelor of Science (B.S.) in Biology (2023-2024)**  
**Tracks: GENB – BBOT – BENV – BMOL – BZOO**

**Four-Year Degree Plan**

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. BIO 3710 (see page 2) will count as 4 WE hours, so you will need at least 2 more hours of WE or WD coursework, which 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 Biology elective or General Education Requirement 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.

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 General Education and/or Writing Intensive Program requirements (see above); it is possible to “double dip” or even “triple dip” (e.g., MUS 1210 may satisfy a Fine Arts, WE, and ICC requirement).

**ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED**

\*C or higher is required in BIO 1000 to matriculate to other BIO courses in the major

**\*\*Biology Track Electives:** Use courses listed below for your Biology Track Electives:

-**General Track (GENB):** any BIO, BIOS, ENV, or BTEC course 2000 or above level

-**Botany Track (BBOT):** BIO 2010, 2080, 3015, 3400, 3540, ENV 2200, 2400

-**Environmental Biology Track (BENV):** BIO 2080, 2500, 3010, 3400, 3420, 4100, 4320, ENV 2200, 2300, 2400, 3100

-**Molecular Biology Track (BMOL):** BIO 3150, 3540, 3750, 3810, 4130, 4610, BTEC 3220

-**Zoology Track (BZOO):** BIO 2040, 2050, 2060, 2420, 2500, 3010, 3100, 3190, 4100, 4610, ENV 2300

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.” Note: QPA cannot be rounded up (e.g., a QPA of 1.996 is not sufficient for graduation).

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	Laboratory Investigations and Experiences in General Biology	1		General Education	Social Science	3
General Education	Fine Arts	3				
<b>Total Credits</b>		14-15		<b>Total Credits</b>		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	History	3		BIO 3040	Principles of Ecology	4
	General Education	Physical Education	1		General Education	Physical Education	1
	General Education	Elective	3				
<b>Total Credits</b>			15	<b>Total Credits</b>			15

Junior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 3180	Principles of Genetics	4		Biology Track Elective**		3-4
	General Education	Social Science	3		University Wide Elective		3
	Biology Track Elective**		3-4		General Education	Social Science	3
	University Wide Elective		3		University Wide Elective		3
	MAT 2100	Introduction to Statistics	3		University Wide Elective		3
<b>Total Credits</b>			16-17	<b>Total Credits</b>			15-16

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 3710	Cell Biology (WE)	4		BIO 4700 (WD)	Reading and Writing in the Natural Sciences	3
	Biology Track Elective**		3-4		University Wide Elective		3
	University Wide Elective		3		University Wide Elective		3
	University Wide Elective		3		University Wide Elective		3
	University Wide Elective		3		University Wide Elective		3
<b>Total Credits</b>			16-17	<b>Total Credits</b>			15