

BACHELOR of SCIENCE (B.S.) in BIOLOGY (2023-2024)
BMED -- Biomedical Emphasis

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

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		BIO 1020	General Zoology	4
	MAT 1070 or MAT 1090	College Algebra or Precalculus	3-4		MAT 2100	Introduction to Statistics	3
	BIO 1000*	Principles of Biology	3		CHM 1300	General Chemistry I	3
	BIOL 1000	Laboratory Investigation and Experiences in General Biology	1		CHM 1100	General Chemistry Laboratory I	1
	PSY 1010	Introduction to Psychology	3		General Education	Physical Education	1
Total Credits			14-15	Total Credits			15

Sophomore Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 2110	Anatomy & Physiology I	4		BIO 2120	Anatomy & Physiology II	4
	CHM 1310	General Chemistry II	3		CHM 2500	Organic Chemistry I	3
	CHM 1110	General Chemistry Laboratory II	1		CHM 2520	Organic Chemistry I Lab	1
	MAT 2150 or MAT 2210	Calculus with Applications or Calculus I	4		General Education	Fine Art	3
	General Education	Literature	3		General Education	Elective	3
					General Education	History	3
Total Credits			15	Total Credits			17

Junior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 3150	Microbiology	4		PHY 1500	College Physics I	3
	CHM 3110	Biochemistry	3		PHY 1560	College Physics I Lab	1
	CHM 2510	Organic Chemistry II	3		BIO 3180	Principles of Genetics	4
	CHM 2530	Organic Chemistry II Lab	1		BIO 3040	Principles of Ecology	4
	General Education	Social Science	3		CHM 3120	Experimental Methods in Biochemistry	1
	General Education	Physical Education	1		General Education	Social Science	3
Total Credits			15	Total Credits			16

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 3710 (WE)	Cell Biology	4		BIO 4610	Animal Physiology	4
	PHY 1510	College Physics II	3		BIO 4700 (WD)	Reading and Writing in the Natural Sciences	3
	PHY 1570	College Physics Lab II	1		BIO 3190 or BIO 3200 or BIO 3750 or BIO 3810 or BIO 3015 or BTEC 4300		3-4
	General Education	Philosophy or Religion	3		University-wide Elective		3-4
	University-wide Elective		3				
Total Credits			14	Total Credits			13-15