

## B.S. in Biology: Biomedical Emphasis (BMED) 2024-2025

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 1	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
<b>Total Credits</b>			14-15	<b>Total Credits</b>			15

Sophomore Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 2110 or BIO 2120	Anatomy & Physiology I or II	4		BIO 2110 or BIO 2120	Anatomy & Physiology I or 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
<b>Total Credits</b>			15	<b>Total Credits</b>			17

\*\*\*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"

Updated 3/2024 Biology Department

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 2180	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	
<b>Total Credits</b>		15	<b>Total Credits</b>		16	

Senior Year						
Fall			Spring			
Course Number	Course Title	Credits	Course Number	Course Title	Credits	
BIO 3710	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				
<b>Total Credits</b>		14	<b>Total Credits</b>		13-15	

You must complete 6 hours of courses designated as WE (writing enriched). BIO 3710 (listed above) will count as 4 hours of writing enriched (WE) credit, so you will still need at least 2 more hours of WE course work, which can potentially come from biology or any other discipline.

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