



## The University of North Carolina at Pembroke

Department of Biology | Oxendine Science Building, 2101

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### RECOMMENDED DEGREE PATH

#### B.S. in Biology: Biomedical Emphasis (2016-2017)

#### FIRST YEAR

##### Fall Semester (15 semester hours)

FRS 1000 Freshman Seminar (1)  
ENG 1050 Composition I (3)  
MAT 1070 College Algebra; or  
MAT 1090 Precalculus (4)  
BIO 1000 Principles of Biology (3)  
BIOL 1000 Laboratory Investigations and  
Experiences in General Biology (1)  
General Education: Fine Arts (3)

##### Spring Semester (15 semester hours)

ENG 1060 Composition II (3)  
BIO 1020 General Zoology (4)  
MAT 2100 Introduction to Statistics (3)  
CHM 1300 General Chemistry I (3)  
CHM 1100 General Chemistry Laboratory I (1)  
General Education: PED (1)

#### SECOND YEAR

##### Fall Semester (15 semester hours)

BIO 2110 Human Anatomy and Physiology I (4);  
or BIO 2120 Human Anatomy & Physiology II (4)  
CHM 1310 General Chemistry II (3)  
CHM 1110 General Chemistry Laboratory II (1)  
MAT 2150 Calculus with Applications (4);  
or MAT 2210 Calculus I (4)  
General Education: Literature (3)

##### Spring Semester (15 semester hours)

MAT 2150 Calculus with Applications (4);  
or MAT 2210 Calculus I (4)  
BIO 2110 Human Anatomy and Physiology I (4);  
or BIO 2120 Human Anatomy & Physiology II (4)  
CHM 2500 Organic Chemistry I (4)  
General Education: History (3)

#### THIRD YEAR

##### Fall Semester (15 semester hours)

BIO 3150 Microbiology (4)  
CHM 3110 Biochemistry (3)  
CHM 2510 Organic Chemistry II (4)  
General Education: Social Science (3)  
General Education: PED (1)

##### Spring Semester (16 semester hours)

PHY 1500 College Physics I (3)  
PHY 1560 College Physics I Lab (1)  
BIO 3180 Principles of Genetics (4)  
BIO 3040 Principles of Ecology (4)  
CHM 3120 Experimental Methods in  
Biochemistry (1)  
General Education: Social Science (3)

#### FOURTH YEAR

##### Fall Semester (14-15 semester hours)

BIO 3710 Cell Biology (4)  
PHY 1510 College Physics II (3)  
PHY 1570 College Physics Lab II (1)  
General Education: Philosophy or Religion (3)  
University-wide Elective (3-4)

##### Spring Semester (16-18 semester hours)

BIO 4610 Animal Physiology (4)  
BIO 4700 Writing in the Discipline (3)  
Biology Elective (3-4)  
General Education: Social Science (3)  
University-wide Elective (3-4)

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.