



Halmos College of Natural Science and Oceanography
SAMPLE FOUR YEAR CURRICULUM | 2018-2019 CATALOG
Bachelor of Science - Biology (Premedical)

Freshman Year			
Semester 1 (Fall - 1 _____)		Semester 2 (Winter - 1 _____)	
Course	Credits	Course	Credits
UNIV 1000: First Year Seminar	3	<u>General Education: Written Composition</u>	3
<u>General Education: Written Composition</u>	3	<u>BIOL 1510: Biology II/Lab (Biology Core)</u>	4
<u>BIOL 1500: Biology I/Lab (Biology Core)</u>	4	<u>CHEM 1310: General Chemistry II/Lab (Biology Core)</u>	4
<u>CHEM 1300: General Chemistry I/Lab (Biology Core)</u>	4	<u>MATH 2100: Calculus I (Biology Core and Gen Ed. Math)</u>	4
Total Credits	14	Total Credits	15
Sophomore Year			
Semester 3 (Fall-2 _____)		Semester 4 (Winter -2 _____)	
Course	Credits	Course	Credits
<u>CHEM 2400: Organic Chemistry I/Lab (Biology Core)</u>	4	<u>General Education: Social and Behavioral Sciences</u>	3
<u>MATH 2020: Applied Statistics (Biology Core and Gen Ed Math)</u>	3	<u>BIOL 3600: Genetics/Lab (Biology Core)</u>	4
<u>Any LITR course (Biology Core and Gen Ed: Arts and Humanities)</u>	3	<u>CHEM 2410: Organic Chemistry II/Lab (Biology Core)</u>	4
<u>General Education: Social and Behavioral Sciences</u>	3	<u>Biology Major Elective (recommend Calculus II*)</u>	4
<u>Elective</u>	3		
Total Credits	16	Total Credits	15
Junior Year			
Semester 5 (Fall-3 _____)		Semester 6 (Winter-3 _____)	
Course	Credits	Course	Credits
<u>PHYS 2350: General Physics I/Lab (4 credits)</u>		<u>PHYS 2360: General Physics II/Lab (4 credits)</u>	
OR	4	OR	4
<u>PHYS 2400: Physics I/Lab (4 credits)</u>		<u>PHYS 2500: Physics II/Lab (4 credits)</u>	
<u>PHIL Course (Biology Core and Gen Ed Arts and Humanities)</u>	3	<u>Biology Major Elective with lab</u>	4
<u>Biology Major Elective (recommend Biochemistry/Lab)**</u>	4	<u>Elective</u>	3
<u>Biology Major Elective</u>	3	<u>Elective</u>	3
Total Credits	14	Total Credits	14
Senior Year			
Semester 7 (Fall-4 _____)		Semester 8 (Winter-4 _____)	
Course	Credits	Course	Credits
<u>Biology Major Elective with Lab</u>	4	<u>Biology Major Elective</u>	3
<u>Biology Major Elective</u>	3	<u>Biology Major Elective</u>	3
<u>Elective</u>	3	<u>Elective +</u>	4
<u>Elective</u>	3	<u>Elective</u>	3
<u>Elective</u>	3	<u>Elective</u>	3
Total Credits	16	Total Credits	16

TOTAL CREDITS: 120

NOTE: Click on course link for detail course information including description and prerequisite requirements

*NOTE: This sample plan is based on the student starting at least at the level of MATH 1250: Trigonometry.

The plan will need to be adjusted for students who begin at a lower level of MATH. Many graduate prefer students to have higher-level math.

**NOTE: Students who plan to take the MCAT exam in the summer of the Junior Year are advised to complete CHEM 3650: Biochemistry/Lab as a major elective in the Junior Year.

+ This semester might be a good one in which to complete internship project hours.

++ Must complete a total of 30 credits of upper level coursework (3000 level and higher)

Major Electives***

Select 27 credits from the following [at least 16 credits must be BIOL 3000+ or

4000+ courses with at least one of these being a BIOL course with a lab (4 credits):

<u>Any 3000/4000-level BIOL course(s), excluding BIOL 3600</u>	
<u>BIOL 2600: Medical Terminology</u>	3
<u>CHEM 3650: Biochemistry/Lab</u>	4
<u>MATH 2001: Introduction to Mathematical Models in Biology</u>	3
OR	
<u>MATH 2200: Calculus II</u>	4
OR	
<u>MATH 3050 Mathematics and Biology</u>	3

NOTE: No more than 3 credits (in total) from each of the following courses may be applied to the major elective requirement:

<u>BIOL 4900: Special Topics in Biology</u>	3
<u>BIOL 4950: Internship in Biology</u>	3
<u>BIOL 4990: Independent Study in Biology</u>	3

***Prerequisites may be required for major electives.

PHIL Courses

Select 3 credits from the following:

<u>PHIL 3010: Ethical Issues in Communication</u>	3
<u>PHIL 3180: Biomedical Ethics</u>	3
<u>PHIL 3200: Ethics and Sport</u>	3
<u>PHIL 3220: Philosophy of Science</u>	3
<u>PHIL 3360: Environmental Ethics</u>	3