

Halmos College of Natural Science and Oceanography  
SAMPLE FOUR YEAR CURRICULUM | 2025-2026 CATALOG  
Bachelor of Science - Biology (Premedical)

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

**\*\*NOTE:** Students who plan to take the MCAT exam in the summer of the Junior Year are advised to complete CHEM 3650: Biochemistry/Lab or CHEM 3660 Biochemistry I/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 Electiv \_\_\_\_\_

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):

Any 3000/4000-level BIOL course(s), excluding BIOL 3600

## BIOL 2600: Medical Terminology

CHEM 3650: Biochemistry/Lab

MATH 2200: Calculus II

*OR*

MATH 3030 Applied Statistics II (winter odd)

*OR*

MATH 3050 Mathematics and Biology (fall even)

NOTE: No more than 6 credits (in total) from each of the following courses may be applied to the major elective requirement:

BIOL 4900: Special Topics in Biology

BIOL 4950: Internship in Biology

BIOL 4960: Practicum in Biology I

BIOL 4961: Practicum in Biology II

BIOL 4990: Independent Study in Biology

PHIL Courses

Select 3 credits from the following:

PHIL 3010: Ethical Issues in Communication

PHIL 3180: Biomedical Ethics

PHIL 3200: Ethics and Sport

PHIL 3220: Philosophy of SciencePHIL 3360: Environmental Ethics

\*\*\*Prerequisites may be required for major electives.

*Consult the Undergraduate Catalog for details.*