



Halmos College of Arts and Sciences  
**SAMPLE FOUR YEAR CURRICULUM | 2023-2024 CATALOG**  
**Bachelor of Science - Biology (Premedical)**

Freshman Year			
Semester 1 (Fall - 1 _____ 2022 _____)		Semester 2 (Winter - 1 _____ 2023 _____)	
Course	Credits	Course	Credits
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
<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>	<b>15</b>
Sophomore Year			
Semester 3 (Fall-2 _____ 2023 _____)		Semester 4 (Winter -2 _____ 2024 _____)	
Course	Credits	Course	Credits
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		
<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>15</b>
Junior Year			
Semester 5 (Fall-3 _____ 2024 _____)		Semester 6 (Winter-3 _____ 2025 _____)	
Course	Credits	Course	Credits
PHYS 2350: General Physics I/Lab (4 credits)		PHYS 2360: General Physics II/Lab (4 credits)	
OR	4	OR	4
PHYS 2400: Physics I/Lab (4 credits)		PHYS 2500: Physics II/Lab (4 credits)	
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
<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>	<b>14</b>
Senior Year			
Semester 7 (Fall-4 _____ 2025 _____)		Semester 8 (Winter-4 _____ 2026 _____)	
Course	Credits	Course	Credits
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
<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>16</b>

**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 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):

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

BIOL 2600: Medical Terminology 3

CHEM 3650: Biochemistry/Lab 4

MATH 2200: Calculus II 4

OR

MATH 3030 Applied Statistics II (winter odd) 3

OR

MATH 3050 Mathematics and Biology (fall even) 3

NOTE: No more than 3 credits (in total) from each of the following courses may

be applied to the major elective requirement:

BIOL 4900: Special Topics in Biology 3

BIOL 4950: Internship in Biology 3

BIOL 4990: Independent Study in Biology 3

PHIL Courses

Select 3 credits from the following:

PHIL 3010: Ethical Issues in Communication 3

PHIL 3180: Biomedical Ethics 3

PHIL 3200: Ethics and Sport 3

PHIL 3220: Philosophy of Science 3

PHIL 3360: Environmental Ethics 3

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