



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

Freshman Year			
Semester 1 (Fall - 1 ____ fall 2023 ____)		Semester 2 (Winter - 1 ____ winter 2024 ____)	
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
Total Credits	14	Total Credits	15
Sophomore Year			
Semester 3 (Fall-2 ____ fall 2024 ____)		Semester 4 (Winter -2 ____ winter 2025 ____)	
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		
Total Credits	16	Total Credits	15
Junior Year			
Semester 5 (Fall-3 ____ fall 2025 ____)		Semester 6 (Winter-3 ____ winter 2026 ____)	
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
Total Credits	14	Total Credits	14
Senior Year			
Semester 7 (Fall-4 ____ fall 2026 ____)		Semester 8 (Winter-4 ____ winter 2027 ____)	
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
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 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.