Biology (B.S.) — Pre-Pharmacy 2025-2026 Academic Catalog, Bachelor of Science – Biology, Pre-Pharmacy

	Core for B.S. 46 H		Biology – P	•	
CHRISTIAN STUI	DIES	6	B.S. BIOLOGY	MAJOR REQUIRED COURSES - PRE-PHARMAC	Y 34-3
CSBS 1311	Engaging the Old Testament	3	BIOL 1350	Biology for Science Majors I	
CSBS 1312	Engaging the New Testament	3	BIOL 1150	Biology for Science Majors I Lab	
			BIOL 1360	Biology for Science Majors II	
ENGLISH		9	BIOL 1160	Biology for Science Majors II Lab	
ENGL 1321	Rhetoric & Composition I	3	BIOL 3310	Genetics	
ENGL 1322	Rhetoric & Composition II	3	BIOL 3110	Genetics Lab	
ENGL	Literature	3	BIOL 4090	Senior Evaluation	(
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.		BIOL 4194	Capstone Writing	-
		•	BIOL 4195	Capstone Seminar	
	ORT SCIENCE – SELECT TWO DIFFERENT COURSES	2		logy: Select one:	3-
EXAC	Activity Course	1	BIOL 4370	Applied Ecology	
EXAC	Activity Course	1	BIOL 4170	Applied Ecology Lab	
		_	DIOL 2240	or	
FINE ARTS — SE	LECT ONE	3	BIOL 3340	Immunology	
ARTS 1310	Drawing I	3	DIOL 4255	or	
ARTS 1320	Design	3	BIOL 4355	Adaptation & Phylogeny	
ARTS 1350	Art Appreciation	3	BIOL 4155	Adaptation and Phylogeny Lab	
ARTS 2360	Ceramics I	3	Diam'r C	Att	
COMM 2335	Film Appreciation	3	Physiology Elec		
	* *		BIOL 2380	Microbiology	3
FINA 2330	Exploring the Fine Arts	3	BIOL 2180	Microbiology Lab	
MUSI 1340	Music Appreciation	3	D. I. El		
THEA 2350	Theatre Appreciation	3	Biology Elective		
			BIOL 2340	Human Anatomy & Physiology I	3
	URES – SELECT ONE	3	BIOL 2140	Human Anatomy & Physiology I Lab	-
ARTS 2354	World Art	3	BIOL 2341	Human Anatomy & Physiology II	:
EXSS 2353	Lifespan Nutrition	3	BIOL 2141	Human Anatomy & Physiology II Lab	:
GLBL 2310	Cultural Immersion	3	BIOL	Biology Upper Level with Lab	4
HIST 1311	History of World Civilizations to 1500	3	BIOL	Biology Electives	
HIST 1312	History of World Civilizations since 1500	3	No grade lower tl	han a "C" will count toward fulfillment of Biology major red	quiremer
HIST 2350	An Introduction to the Politics and Culture of An	cient			_
	Greece and Rome	3		JRSES FOR PRE-PHARMACY	3
HUMA 2355	Foundations of the Humanities	3	CHEM 1420	General Chemistry II	4
MUSI 2358	World Music	3	CHEM 3410	Organic Chemistry I	4
PHIL 2315	Introduction to Philosophy	3	CHEM 3420	Organic Chemistry II	4
			HIST 2312	American History since 1877	
LAB SCIENCE		<u>8</u>	MATH 1306	College Algebra	3
CHEM 1410	General Chemistry I	4	MATH 1320	Pre Calculus	3
PHYS 2411	General Physics I	4	MATH 1430	Calculus I	4
	,		POLS 2305	United States Government	3
PUBLIC SPEAKIN	NG	3	POLS 2306	Texas State and Local Government	3
COMM 1320	Public Speaking	3	•		
			-1		
MATHEMATICS		3	Electives		
MATH 2303	Statistics	3		ELECTRICS	
			UPPER LEVEL		
RESEARCH MET	HODS OR INTERNSHIP	2	As needed to re	each your minimum 36 UL required hrs.	
BIOL 2170	Research Methods	1	ELECTIVES		
BIOL 2171	Research Methods	1		each your minimum 120 required hrs.	
			As needed to re	each your minimum 120 required his.	
SOCIAL SCIEN	CE	3			
PSYC 1301	General Psychology	3	Total Hours		
				for D.C.	4
US HISTORY C	OR US GOVERNMENT	3	Academic Core		24.21
HIST 2311	American History to 1877	3	07	ajor Required Courses	34-3
			Required Courses for Pre-Pharmacy		33
	MINAR	1	Upper Level Ele		40
FRESHMAN SEN		4	i otal nours req	juired for graduation	120
FRESHMAN SEN UMHB 1101	Freshman Seminar	1			
UMHB 1101		1	Additional Co-	dustion Requirements	
UMHB 1101 CHAPEL – 1 to 4		1		duation Requirements	3.
UMHB 1101 CHAPEL – 1 to 4			Minimum Uppe	er Level hours	30
UMHB 1101 CHAPEL – 1 to 4 UMHB 1002	credits		Minimum Uppe Minimum hour	•	36 30 24

Biology (B.S.) — Pre-Pharmacy 2025-2026 Academic Catalog, Bachelor of Science — Biology, Pre-Pharmacy — DEGREE SEQUENCE

FRESHMAN FALL		15 Hours	FRESHMAN SPRING		15 Hours
BIOL 1350/115	O Biology for Science Majors I	4	BIOL 1360/1160	Biology for Science Majors II	4
ENGL 1321	Rhetoric & Composition I	3	CHEM 1420	General Chemistry II	4
CHEM 1410	General Chemistry I	4	ENGL 1322	Rhetoric & Composition II	3
MATH 1306	College Algebra	3	PSYC 1301	General Psychology	3
UMHB 1101	Freshman Seminar	1	EXAC	Activity Course	1
UMHB 1002	Chapel	0	UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	0
SOPHOMORE FALL		16 Hours	SOPHOMORE S	PRING	15 Hours
BIOL 2170/217	71 Research Methods	2	BIOL 2341/2141	Human Anatomy & Physiology II with Lab	4
CHEM 3410	Organic Chemistry I	4	CHEM 3420	Organic Chemistry II	4
ENGL	Literature	3	MATH 2303	Statistics	3
BIOL 2340/2140	Human Anatomy & Physiology I with Lab	4	BIOL 2380/2180	Microbiology with Lab	4
	Public Speaking	3	UMHB 1002	Chapel	0
COMM 1320			UMHB 1005	Fine Arts Experience	0
UMHB 1002	Chapel	0	011111111111111111111111111111111111111	•	
	Chapel Fine Arts Experience	0	05 1000	·	
UMHB 1002	·		JUNIOR SPRING	i	17 Hours
UMHB 1002 UMHB 1005	Fine Arts Experience	0	JUNIOR SPRING	Biology Upper Level Electives	2
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/312	Fine Arts Experience 10 Genetics Upper Level Electives	0 16 Hours 4 3	JUNIOR SPRING BIOL PHYS 2411	Biology Upper Level Electives General Physics I	2
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/312 MATH 1320	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus	0 16 Hours 4 3 3	JUNIOR SPRING BIOL PHYS 2411 MATH 1430	Biology Upper Level Electives General Physics I Calculus I	2 4 4
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/31: MATH 1320 POLS 2305	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government	0 16 Hours 4 3 3 3	JUNIOR SPRING BIOL PHYS 2411	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government	2
JUNIOR FALL BIOL 3310/313 MATH 1320 POLS 2305 HIST 2311	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877	0 16 Hours 4 3 3 3 3	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877	2 4 4 3
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/31: MATH 1320 POLS 2305	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government	0 16 Hours 4 3 3 3	BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government	2 4 4 3 3
JUNIOR FALL BIOL 3310/313 MATH 1320 POLS 2305 HIST 2311	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877	0 16 Hours 4 3 3 3 3	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience	2 4 4 3 3 1
JUNIOR FALL BIOL 3310/313 MATH 1320 POLS 2305 HIST 2311 UMHB 1005	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877	16 Hours 4 3 3 3 0	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience	2 4 4 3 3 1 0
JUNIOR FALL BIOL 3310/313 MATH 1320 POLS 2305 HIST 2311 UMHB 1005	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877 Fine Arts Experience	16 Hours 4 3 3 3 0	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience	2 4 4 3 3 1 0 14 Hours
JUNIOR FALL BIOL 3310/313 MATH 1320 POLS 2305 HIST 2311 UMHB 1005	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877 Fine Arts Experience	16 Hours 4 3 3 3 0 17 Hours	BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005 SENIOR SPRING BIOL 4195	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience Capstone Seminar	2 4 4 3 3 1 0
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/312 MATH 1320 POLS 2305 HIST 2311 UMHB 1005	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877 Fine Arts Experience Integrative Biology Upper Level Electives	16 Hours 4 3 3 3 0 17 Hours 3 4	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005 SENIOR SPRING BIOL 4195 BIOL 4090	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience Capstone Seminar Senior Evaluation	2 4 4 3 3 1 0 14 Hours 1
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/312 MATH 1320 POLS 2305 HIST 2311 UMHB 1005 SENIOR FALL BIOL	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877 Fine Arts Experience Integrative Biology Upper Level Electives Biology Upper Level Elective with Lab	16 Hours 4 3 3 3 0 17 Hours 3 4 4	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005 SENIOR SPRING BIOL 4195 BIOL 4090	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience Capstone Seminar Senior Evaluation Engaging the New Testament	2 4 4 3 3 1 0 14 Hours 1 0
UMHB 1002 UMHB 1005 JUNIOR FALL BIOL 3310/312 MATH 1320 POLS 2305 HIST 2311 UMHB 1005 SENIOR FALL BIOL	Fine Arts Experience 10 Genetics Upper Level Electives Pre Calculus United States Government American History to 1877 Fine Arts Experience Integrative Biology Upper Level Electives Biology Upper Level Elective with Lab Engaging the Old Testament	16 Hours 4 3 3 3 0 17 Hours 3 4 4 3	JUNIOR SPRING BIOL PHYS 2411 MATH 1430 POLS 2306 HIST 2312 EXAC UMHB 1005 SENIOR SPRING BIOL 4195 BIOL 4090 CSBS 1312	Biology Upper Level Electives General Physics I Calculus I Texas State and Local Government American History since 1877 Activity Course Fine Arts Experience Capstone Seminar Senior Evaluation Engaging the New Testament World Cultures	2 4 4 3 3 1 0 14 Hours 1 0 3 3

A grade of "C" or better must be made in all Biology courses applying to the major. You must also complete 8 credits of a Fine Arts Experience (UMHB 1005).

Total Minimum Credit Hours: 120