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

CHAPEL-1 to 4 credits UMHB 1002 Chapel

Academic Core for B.S.		46 Hours	Fine Arts Experience – 2 to 8 credits		
CUDICTIAN CT.	DIFE	•	UMHB 1005	Fine Arts Experience	
CHRISTIAN STU		6			
CSBS 1311 CSBS 1312	Engaging the Old Testament Engaging the New Testament	3			
C3B3 1312	Engaging the New Testament	3	Biology – P	Pre-Clinical Lab Science	
ENGLISH		9	P C PIOLOGY	MAJOR REQUIRED COURSES – PRE-CLS	34-35
ENGL 1321	Rhetoric & Composition I	3	BIOL 1350	Biology for Science Majors I	34-33
ENGL 1322	Rhetoric & Composition II	3	BIOL 1150	Biology for Science Majors I Lab	1
ENGL	Literature	3	BIOL 1360	Biology for Science Majors II	3
A grade of a "C"	or higher is required in ENGL 1321 and ENG	L 1322.	BIOL 1160	Biology for Science Majors II Lab	1
EVEDOSE O COOPT COUNCE. CELECT TAVO DIFFERENT COLUDES		IDCEC 3	BIOL 3310	Genetics	3
	DRT SCIENCE – SELECT TWO DIFFERENT COL		BIOL 3110	Genetics Lab	1
EXAC	Activity Course	1	BIOL 4090	Senior Evaluation	0
EXAC	Activity Course	1	BIOL 4194	Capstone Writing	1
FINE ARTS — SE	I FCT ONE	3	BIOL 4195	Capstone Seminar	1
ARTS 1310	Drawing I	3			
	· ·		Select one:	A - P - 15 - 1	3-4
ARTS 1320	Design	3	BIOL 4370	Applied Ecology	
ARTS 1350	Art Appreciation	3	BIOL 4170	Applied Ecology Lab	
ARTS 2360	Ceramics I	3	BIOL 3340	or Immunology	
COMM 2335	Film Appreciation	3	DIOL 2340	or	
FINA 2330	Exploring the Fine Arts	3	BIOL 4355	Adaptation & Phylogeny	
MUSI 1340	Music Appreciation	3	BIOL 4155	Adaptation and Phylogeny Lab	
THEA 2350	Theatre Appreciation	3	5.02 1100	, laaptation and mylogemy cas	
		_	Physiology Elec	ctives	
	URES – SELECT ONE	<u>3</u>	BIOL 2380	Microbiology	3
ARTS 2354	World Art	3	BIOL 2180	Microbiology Lab	1
EXSS 2353 GLBL 2310	Lifespan Nutrition Cultural Immersion	3			
HIST 1311	History of World Civilizations to 1500	3	Biology Elective		
HIST 1312	History of World Civilizations since 150		BIOL	Biology Upper Level with Lab	4
HIST 2350	An Introduction to the Politics and Cul		BIOL	Any Biology with Lab	4
	Greece and Rome	3	BIOL 3340	Immunology	3
HUMA 2355	Foundations of the Humanities	3	BIOL	Biology Electives	2
MUSI 2358	World Music	3	No grade lower ti	han a "C" will count toward fulfillment of Biology majo.	rrequirement
PHIL 2315	Introduction to Philosophy	3	REQUIRED COURSES FOR PRE-CLINICAL LAB SCIENCE		11
LAD COURTE		•	CHEM 3410	Organic Chemistry I	4
LAB SCIENCE		8	CHEM 3400	Quantitative Analysis	4
CHEM 1410	General Chemistry I	4		or	
CHEM 1420	General Chemistry II	4	CHEM 4430	Biochemistry	4
PUBLIC SPEAKIN	NC	3	MATH 1306	College Algebra	3
COMM 1320		<u>3</u>	Electives		
COIVIIVI 1320	Public Speaking	3	Electives		
MATHEMATICS		3	UPPER LEVEL	ELECTIVES	
MATH 2303	Statistics	3	As needed to re	each your minimum 36 UL required hrs.	
	THODS OR INTERNSHIP	2	ELECTIVES	120 : 11	
BIOL 2170	Research Methods	1	As needed to re	each your minimum 120 required hrs.	
BIOL 2171	Research Methods	1			
SOCIAL SCIEN	CE – SELECT ONE	3	Total Hours		
BECO 2311	Principles of Macroeconomics	3	Academic Core	for B S	46
EDUC 2399	Child and Adolescent Development	3		ajor Required Courses	34-35
PSYC 1301	General Psychology	3	0,	ses for Pre-Clinical Lab Science	11
SOCI 1311	Introduction to Sociology	3	Upper Level Ele		
SOCW 2311	Introduction to Social Work	3	Electives		
			Total hours red	quired for graduation	120
	OR US GOVERNMENT – SELECT ONE	<u>3</u>			
HIST 2311	American History to 1877	3		duation Requirements	
HIST 2312	American History since 1877 United States Government	3	Minimum Upp		36
POLS 2305 POLS 2306	Texas State and Local Government	3		rs taken at UMHB	30
1 013 2300	ichas state and Local Government	j.	Minimum Oppe	er Level hours taken at UMHB	24 2.0
FRESHMAN SEM	MINAR	1	iviii iii ii iurii cum	ulative UFA	2.0
UMHB 1101	Freshman Seminar	1			

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

FRESHMAN FALL BIOL 1350/1150 Biology for Science Majors I		<b>15 Hours</b> 4	FRESHMAN SPRING BIOL 1360/1160 Biology for Science Majors II		<b>15 Hours</b> 4
MATH 1306	College Algebra	3	COMM 1320	Public Speaking	3
ENGL 1321	Rhetoric & Composition I	3	ENGL 1322	Rhetoric & Composition II	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		13 Hours	SOPHOMORE SPRING		17 Hours
BIOL 2170/21	71 Research Methods	2	BIOL 3310/3110 Genetics		4
BIOL	Biology Elective	3	CSBS 1311	Engaging the Old Testament	3
CHEM 3410	Organic Chemistry I	4		Elective	3
ENGL	Literature	3		Elective	3
	Electives	3	BIOL 2180/238	0 Microbiology with Lab	4
UMHB 1002	Chapel	0	UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	0
JUNIOR FALL		15 Hours	JUNIOR SPRING		16 Hours
BIOL	Any Biology with Lab	4		Upper Level Electives	3
	CHEM 3400 or CHEM 4430	4		World Cultures	3
CSBS 1312	Engaging the New Testament	3	BIOL 3340	Immunology	3
MATH 2303	Statistics	3		Social Science	3
EXAC	Activity Course	1		Elective	3
UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	0
SENIOR FALL		15 Hours	SENIOR SPRING		14 Hours
·	Elective	3	BIOL 4090	Senior Evaluation	0
BIOL	Biology Upper Level Elective	3		Upper Level Electives	3
	Elective	2		Upper Level Electives	3
BIOL	Biology Upper Level Elective with Lab	4		Fine Arts	3
	Upper Level Electives	3		US History or Government	3
UMHB 1005	Fine Arts Experience	0	BIOL 4194	Capstone Writing	1
			BIOL 4195	Capstone Seminar	1
			UMHB 1005	Fine Arts Experience	0

**Total Credit Hours: 120**