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

Fine Arts Experience – 2 to 8 credits UMHB 1005 Fine Arts Experience

CHRISTIAN STUI		6		REQUIRED COURSES – PRE-MED/PRE-DENT	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	
FNCUCU		•	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	
EVEDOICE & CDO	ADT SCIENCE - SELECT TIMO DIEFEDENIT COLIDSES	2	BIOL 4195	Capstone Seminar	3-
	ORT SCIENCE – SELECT TWO DIFFERENT COURSES	2		logy – Select one:	3-
EXAC	Activity Course	1	BIOL 4370 BIOL 4170	Applied Ecology	
EXAC	Activity Course	1	BIOL 4170	Applied Ecology Lab	
FINIT ADTC CE	I FOT ONE	2	BIOL 3340	Or Immunology	
FINE ARTS — SE		3	DIOL 3340	Immunology	
ARTS 1310	Drawing I	3	BIOL 4355	or Adaptation & Phylogeny	
ARTS 1320	Design	3	BIOL 4355	Adaptation & Phylogeny Adaptation and Phylogeny Lab	
ARTS 1350	Art Appreciation	3	DIOL 4133	Adaptation and Phylogeny Lab	
ARTS 2360	Ceramics I	3	Biology Elective	or .	
COMM 2335	Film Appreciation	3	Biology Elective	Biology Electives	
FINA 2330	Exploring the Fine Arts	3	Physiology Elec	= -	
			BIOL 2380	Microbiology	
MUSI 1340	Music Appreciation	3	BIOL 2180	Microbiology Microbiology Lab	•
THEA 2350	Theatre Appreciation	3	BIOL 4305	Cell Biology	
WORLD CHIT	LIDES SELECT ONE	2	BIOL 4105	Cell Biology Lab	,
ARTS 2354	URES – SELECT ONE	3	BIOL 2340	Human Anatomy & Physiology	
	World Art		BIOL 2140	Human Anatomy & Physiology Lab	,
EXSS 2353	Lifespan Nutrition	3 3	BIOL 2341	Human Anatomy & Physiology II	
GLBL 2310	Cultural Immersion		BIOL 2141	Human Anatomy & Physiology II Lab	•
HIST 1311	History of World Civilizations to 1500	3		han a "C" will count toward fulfillment of Biology major r	
HIST 1312	History of World Civilizations since 1500	3	No grade lower t	nan a C will count toward juljillment of Biology major r	equirerner
HIST 2350	An Introduction to the Politics and Culture of Greece and Rome	Ancient 3	REQUIRED CO	OURSES FOR PRE-MED/PRE-DENT	3:
HUMA 2355	Foundations of the Humanities	3	CHEM 1420	General Chemistry II	4
MUSI 2358	World Music	3	CHEM 3410	Organic Chemistry I	
PHIL 2315	Introduction to Philosophy	3	CHEM 3420	Organic Chemistry II	4
FIIIL ZJIJ	introduction to Filliosophy	3	CHEM 4430	Biochemistry	4
LAB SCIENCE		8	MATH 1306	College Algebra	
PHYS 2411	General Physics I	4	MATH 1320	Pre Calculus	3
			PHYS 2412	General Physics II	4
CHEM 1410	General Chemistry I	4	PSYC 2311	Developmental Psychology	3
PUBLIC SPEAKIN	le.	3	SOCI 1311	Introduction to Sociology	3
				o,	
COMM 1320	Public Speaking	3	Electives		
MATHEMATICS		3			
MATH 2303	Statistics	3	UPPER LEVEL		
	514.151.155	J	As needed to r	each your minimum 36 UL required hrs.	
RESEARCH MET	HODS OR INTERNSHIP	2			
BIOL 2170	Research Methods	1	ELECTIVES	1 120 11	
BIOL 2171	Research Methods	1	As needed to r	each your minimum 120 required hrs.	
DIOL 21/1	nesearch Methods	1			
SOCIAL SCIEN	CE	3	-		
PSYC 1301	General Psychology	3	Total Hours		
10101001	20.101411 0/0110108/	J	Academic Core		46
US HISTORY C	OR US GOVERNMENT – SELECT ONE	3	07	ajor Required Courses	34-3
HIST 2311	American History to 1877	3		ses for Pre-Med/Pre-Dent	32
HIST 2312	American History since 1877	3	Upper Level Ele	ectives	
POLS 2305	United States Government	3	Electives		
POLS 2306	Texas State and Local Government	3	Total hours red	quired for graduation	120
FRESHMAN SEN	/IINAR	1		duation Requirements	
UMHB 1101	Freshman Seminar	1	Minimum Upp		3
		=		rs taken at UMHB	30
			Minimum Han	er Level hours taken at UMHB	24
CHAPEL-1 to 4	credits		Minimum cum		2.0

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

FRESHMAN FALL	15 Hours	FRESHMAN SPRING	15 Hours
BIOL 1350/1150 Biology for Science Majors I	4	BIOL 1360/1160 Biology for Science Majors II	4
CHEM 1410 General Chemistry I	4	CHEM 1420 General Chemistry II	4
MATH 1306 College Algebra	3	PSYC 1301 General Psychology	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	16 Hours	SOPHOMORE SPRING	14 Hours
BIOL 2170/2171 Research Methods	2	BIOL 3310/3110 Genetics	4
BIOL 2380/2180 Microbiology	4	CHEM 3420 Organic Chemistry II	4

SOPHOMORE F	ALL	16 Hours
BIOL 2170/2171	Research Methods	2
BIOL 2380/2180	Microbiology	4
CHEM 3410	Organic Chemistry I	4
ENGL	Literature	3
SOCI 1311	Intro to Sociology	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE S	PRING	14 Hours
BIOL 3310/3110) Genetics	4
CHEM 3420	Organic Chemistry II	4
PSYC 2311	Developmental Psychology	3
MATH 1320	Pre-Calculus	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL		16 Hours
BIOL 2340/2140	O Human A & P I	4
CHEM 4430	Biochemistry	4
PHYS 2411	General Physics I	4
BIOL 4305/410	5 Cell Biology	4
UMHB 1005	Fine Arts Experience	0

. 2341/214:	1 Human A&P II	4
S 2412	General Physics II	4
TH 2303	Statistics	3
	Biology Upper Level Elective	3
	Upper level Elective	3
HB 1005	Fine Arts Experience	0
	S 2412 TH 2303	TH 2303 Statistics Biology Upper Level Elective Upper level Elective

Take MCAT or DAT in Spring of Jr. Yr. Apply to medical or dental schools in May.

SENIOR FALL		14 Hours
	Integrative Biology	3
BIOL 4194	Capstone Writing	1
EXAC	Activity Course	1
	World Cultures	3
CSBS 1311	Engaging the Old Testament	3
COMM 1320	Public Speaking	3
UMHB 1005	Fine Arts Experience	0

SENIOR SPRIN	G	15 Hours
BIOL 4090	Senior Evaluation	0
BIOL 4195	Capstone Seminar	1
	Upper Level Elective	5
CSBS 1312	Engaging the New Testament	3
	Fine Arts	3
	US History or Government	3
UMHB 1005	Fine Arts Experience	0

Medical/Dental school interviews before Christmas

Receive acceptance letters from Med./Dent. schools to start next Fall.

- •All courses in BOLD are offered only in the Fall or Spring semester
- Precalculus is a corequisite for PHYS 2411/2412. You must have an ACT math score of at least 24 or a New SAT math score of at least 570 to be able to take this as your first math class at UMHB. Otherwise, you must take MATH 1306 (College Algebra) first. Enrolling in College Algebra requires ACT Math ≥22, New SAT Math ≥530, or Math Review.

Minimum Total Credit Hours: 120