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

Academic Core for B.S.

46 Hours

CHRISTIAN STUD	NES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1321	Rhetoric & Composition II	3
ENGL	Literature	3
	or higher is required in ENGL 1321 and ENGL 1322.	5
EXERCISE & SPO	RT SCIENCE - SELECT TWO DIFFERENT COURSES	2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS - SEL	ECT ONE	3
ARTS 1310	Drawing I	3
ARTS 1320	Design	3
ARTS 1350	Art Appreciation	3
ARTS 2360		3
	Ceramics I	
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	3
	JRES – SELECT ONE	3
ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HIST 2350	An Introduction to the Politics and Culture of And	
	Greece and Rome	3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3
LAB SCIENCE		8
CHEM 1410	General Chemistry I	4
PHYS 2411	General Physics I	4
PUBLIC SPEAKIN	G	3
COMM 1320	Public Speaking	3
MATHEMATICS		3
MATH 2303	Statistics	3
RESEARCH METH	HODS OR INTERNSHIP	2
BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1
SOCIAL SCIENC	CE – SELECT ONE	3
BECO 2311	Principles of Macroeconomics	3
PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3
SOCI 1311	Introduction to Sociology	3
SOCW 2311	Introduction to Social Work	3
US HISTORY O	R US GOVERNMENT	3
HIST 2311	American History to 1877	3
FRESHMAN SEM	IINAR	1
UMHB 1101	Freshman Seminar	1
	redits	
CHAPEL – 1 to 4 c		
CHAPEL - 1 to 4 c UMHB 1002	Chapel	

## **Biology** – Pre-Veterinary

Electives

Total hours required for graduation

Additional Graduation Requirements Minimum Upper Level hours

Minimum Upper Level hours taken at UMHB

Minimum hours taken at UMHB

Minimum cumulative GPA

B.S. BIOLOGY	MAJOR REQUIRED COURSES - PRE-VETER	NARY 34-35
BIOL 1350	Biology for Science Majors I	3
BIOL 1150	Biology for Science Majors I Lab	1
BIOL 1360	Biology for Science Majors II	3
BIOL 1160	Biology for Science Majors II Lab	1
BIOL 3310	Genetics	3
BIOL 3110	Genetics Lab	1
BIOL 4090	Senior Evaluation	0
BIOL 4194	Capstone Writing	1
BIOL 4195	Capstone Seminar	1
Integrative Bio	logy - Select one:	3-4
BIOL 4370	Applied Ecology	
BIOL 4170	Applied Ecology Lab	
	or	
BIOL 3340	Immunology	
	or	
BIOL 4355	Adaptation & Phylogeny	
BIOL 4155	Adaptation and Phylogeny Lab	
Physiology Elec	tives	
BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
51022100	Wielebiology Lab	±
Biology Elective		4
	Biology Upper Level with Lab	
BIOL	Any Biology with Lab	4
BIOL No grade lower t	Biology Electives han a "C" will count toward fulfillment of Biology ma	
-		
CHEM 1420	JRSES FOR PRE-VETERINARY General Chemistry II	<b>26</b> 4
		4
CHEM 3410	Organic Chemistry I	
CHEM 3420	Organic Chemistry II	4
CHEM 4430	Biochemistry	4
MATH 1306	College Algebra	3
MATH 1320 PHYS 2412	Pre Calculus General Physics II	3
FIII3 2412		4
Electives		
UPPER LEVEL	ELECTIVES	
	each your minimum 36 UL required hrs.	
ELECTIVES		
As needed to n	each your minimum 120 required hrs.	
Total Hours		
Academic Core	for B.S.	46
	ajor Required Courses	34-35
07	ses for Pre-Veterinary	26
Upper Level Ele	,	20

120

36

30 24

2.0

ine Arts Exp to 8 cre UMHB 1005

Fine Arts Experience

## Biology (B.S.) – Pre-Veterinary 2025-2026 Academic Catalog, Bachelor of Science – Biology (B.S.) – Pre-Veterinary – DEGREE SEQUENCE

FRESHMAN FALL		15 Hours
BIOL 1350/1150	Biology for Science Majors I	4
CHEM 1410	General Chemistry I	4
MATH 1306	College Algebra	3
ENGL 1321	Rhetoric & Composition I	3
UMHB 1101	Freshman Seminar	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE FALL		15 Hours
BIOL 2170/2171	L Research Methods	2
BIOL 2380/2180	Microbiology with Lab	4
CHEM 3410	Organic Chemistry I	4
BIOL	Biology Electives	2
ENGL	Literature	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL		16 Hours
CHEM 4430	Biochemistry	4
	Elective	3
CSBS 1311	Engaging the Old Testament	3
	Social Science	3
	Fine Arts	3
UMHB 1005	Fine Arts Experience	0

SENIOR	FALL		15 Hours
		Integrative Biology	4
BIOL 419	94	Capstone Writing	1
PHYS 24	11	General Physics I	4
MATH 13	320	Pre Calculus	3
		Upper Level Electives	3
UMHB 1	.005	Fine Arts Experience	0
	App	bly to vet school fall of senior year	

•Scores needed to enroll in the following math courses: MATH 1306 (ACT 22; SAT 530) and MATH 1320 (ACT 24; new SAT 570).

•All courses in BOLD are offered only in the fall or spring semester as indicated.

•\*TAMU College of Veterinary Medicine requires Animal Nutrition and an upper-level statistics course, which are not currently available at UMHB.

•CHEM 3410, CHEM 4430, & PHYS 2411 must be either completed or in progress at the time you apply to vet school.

FRESHMAN SPRING		15 Hours
BIOL 1360/1160	Biology for Science Majors II	4
CHEM 1420	General Chemistry II	4
ENGL 1322	Rhetoric & Composition II	3
COMM 1320	Public Speaking	3
EXAC	Activity Course	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE SPRING		15 Hours
BIOL	Biology Elective (BIOL 2330 suggested)	3
BIOL 3310/3110	) Genetics	4
CHEM 3420	Organic Chemistry II	4
HIST 2311	American History to 1877	3
EXAC	Activity Course	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRI	NG	14 Hours
BIOL	Biology Elective with Lab	4
MATH 2303	Statistics*	3
	Upper Level Electives	4
CSBS 1312	Engaging the New Testament	3
UMHB 1005	Fine Arts Experience	0
	Take GRE spring of Junior year	

SENIOR SPRING		16 Hours
BIOL	Biology Upper Level lab elective	4
BIOL 4090	Senior Evaluation	0
BIOL 4195	Capstone Seminar	1
PHYS 2412	General Physics II	4
	World Cultures	3
	Upper Level Electives	3
UMHB 1005	Fine Arts Experience	0

## **Total Minimum Credit Hours: 120**