

Biology (B.S.) – Pre-Physician Assistant

2025-2026 Academic Catalog, Bachelor of Science – Biology, Pre-Physician Assistant

Academic Core for B.S.

46 Hours

CHRISTIAN STUDIES		6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3
<i>A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.</i>		
EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS – SELECT ONE		3
ARTS 1310	Drawing I	3
ARTS 1320	Design	3
ARTS 1350	Art Appreciation	3
ARTS 2360	Ceramics I	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	3
WORLD CULTURES – 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 Ancient 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
CHEM 1420	General Chemistry II	4
PUBLIC SPEAKING		3
COMM 1320	Public Speaking	3
MATHEMATICS		3
MATH 2303	Statistics	3
RESEARCH METHODS OR INTERNSHIP		2
BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1
SOCIAL SCIENCE		3
PSYC 1301	General Psychology	3
US HISTORY OR US GOVERNMENT – SELECT ONE		3
HIST 2311	American History to 1877	3
HIST 2312	American History since 1877	3
POLS 2305	United States Government	3
POLS 2306	Texas State and Local Government	3
FRESHMAN SEMINAR		1
UMHB 1101	Freshman Seminar	1
CHAPEL – 1 to 4 credits		
UMHB 1002	Chapel	
Fine Arts Experience – 2 to 8 credits		
UMHB 1005	Fine Arts Experience	

Biology – Pre-PA

B.S. BIOLOGY MAJOR REQUIRED COURSES – PRE-PA		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
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 Electives		
BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
BIOL 2340	Human Anatomy & Physiology	3
BIOL 2140	Human Anatomy & Physiology Lab	1
BIOL 3340	Immunology	3
Biology Electives		
BIOL	Biology Upper Level with Lab	4
BIOL	Biology Electives	2
<i>No grade lower than a "C" will count toward fulfillment of Biology major requirements.</i>		
REQUIRED COURSES FOR PRE-PA		21
BIOL 2341	Human Anatomy & Physiology II	3
BIOL 2141	Human Anatomy & Physiology II Lab	1
CHEM 3410	Organic Chemistry I	4
CHEM 4430	Biochemistry	4
EXSS 2355	Medical Terminology	3
MATH 1306	College Algebra	3
PSYC 2311	Developmental Psychology	3
	or	
PSYC 3315	Abnormal Psychology	3
Electives		
UPPER LEVEL ELECTIVES		
As needed to reach your minimum 36 UL required hrs.		
ELECTIVES		
As needed to reach your minimum 120 required hrs.		
Total Hours		
Academic Core for B.S.		46
B.S. Biology Major Required Courses		34-35
Required Courses for Pre-PA		21
Upper Level Electives		
Electives		
Total hours required for graduation		120
Additional Graduation Requirements		
Minimum Upper Level hours		36
Minimum hours taken at UMHB		30
Minimum Upper Level hours taken at UMHB		24
Minimum cumulative GPA		2.0

Biology (B.S.) – Pre-Physician Assistant

2025-2026 Academic Catalog, Bachelor of Science – Biology, Pre-Physician Assistant – DEGREE SEQUENCE

FRESHMAN FALL 15 Hours

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

FRESHMAN SPRING 15 Hours

BIOL 1360/1160	Biology for Science Majors II	4
ENGL 1322	Rhetoric & Composition II	3
CHEM 1420	General Chemistry II	4
PSYC 1301	General Psychology*	3
EXAC	Activity Course	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE FALL 14 Hours

BIOL 2170/2171	Research Methods	2
BIOL 2340/2140	Human Anatomy & Physiology I with Lab	4
BIOL 2380/2180	Microbiology with Lab	4
CHEM 3410	Organic Chemistry I*	4
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE SPRING 14 Hours

COMM 1320	Public Speaking	3
BIOL 2341/2141	Human Anatomy & Physiology II with Lab	4
BIOL 3310/3110	Genetics	4
ENGL	Literature	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL 16 Hours

	Elective	4
	Elective	3
CHEM 4430	Biochemistry*	4
BIOL	Biology Upper Level with Lab	4
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRING 16 Hours

BIOL 3340	Immunology	3
MATH 2303	Statistics	3
EXSS 2355	Medical Terminology	3
	PSYC 2311 or PSYC 3315*	3
	Upper Level Electives	3
EXAC	Activity Course	1
UMHB 1005	Fine Arts Experience	0

SENIOR FALL 15 Hours

BIOL	Biology Elective	2
BIOL 4194	Capstone Writing	1
	US History or Government	3
CSBS 1311	Engaging the Old Testament	3
	Upper Level Electives	6
UMHB 1005	Fine Arts Experience	0

SENIOR SPRING 15 Hours

BIOL 4090	Senior Evaluation	0
BIOL 4195	Capstone Seminar	1
CSBS 1312	Engaging the New Testament	3
	World Cultures	3
	Fine Arts	3
	Upper Level Electives	6
UMHB 1005	Fine Arts Experience	0

*These courses are the academic prerequisites for Texas PA programs. 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