

Biology (B.S.) – Pre-Clinical Lab Science

2024-2025 Academic Catalog, Bachelor of Science – Biology, Pre-Clinical Lab Science

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

A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.

EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES 2

EXAC	Activity Course	1
EXAC	Activity Course	1

FINE ARTS – SELECT ONE 3

ARTS 1350	Art Appreciation	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
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
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MATHEMATICS 3

MATH 2303	Statistics	3
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RESEARCH METHODS OR INTERNSHIP 2

BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1

SOCIAL SCIENCE – SELECT ONE 3

BECO 2310	Principles of Economics	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 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
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CHAPEL – 1 to 4 credits

UMHB 1002	Chapel	
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Fine Arts Experience – 2 to 8 credits

UMHB 1005	Fine Arts Experience	
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Biology – Pre-Clinical Lab Science 47 Hours

B.S. BIOLOGY MAJOR REQUIRED COURSES – PRE-CLS 36

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 4295	Capstone Seminar	2
BIOL 4370	Applied Ecology	3
BIOL 4170	Applied Ecology Lab	1

Physiology Electives

BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1

Biology Electives

BIOL	Biology Upper Level with Lab	4
BIOL	Any Biology with Lab	4
BIOL 3340	Immunology	3
BIOL	Biology Electives	2

No grade lower than a "C" will count toward fulfillment of Biology major requirements.

REQUIRED COURSES FOR PRE-CLINICAL LAB SCIENCE 11

CHEM 3410	Organic Chemistry I	4
CHEM 3400	Quantitative Analysis	4
	or	
CHEM 4430	Biochemistry	4
MATH 1306	College Algebra	3

Electives 27 Hours

UPPER LEVEL ELECTIVES 10

You need 10 additional hours to reach your minimum 36 UL required hrs.

ELECTIVES 17

You need 17 additional hours to reach your minimum 36 UL required hrs.

Total Hours

Academic Core for B.S.	46
B.S. Biology Major Required Courses	36
Required Courses for Pre-Clinical Lab Science	11
Upper Level Electives	7
Electives	17
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