# Biology (B.S.) 2025-2026 Academic Catalog, Bachelor of Science – Biology – 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 F	ALL	13 Hours
BIOL 2170/2171	1 Research Methods	2
CHEM 3410	Organic Chemistry I	4
ENGL	Literature	3
	Electives	4
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL		16 Hours	JL
BIOL	Biology Physiology Elective	4	В
	Upper Level Elective	3	Ν
	Social Science	3	E
CSBS 1312	Engaging the New Testament	3	
	Elective	3	
UMHB 1005	Fine Arts Experience	0	U

SENIOR FALL		15 Hours
BIOL 4194	Capstone Writing	1
	Integrative Biology	4
BIOL	Biology Upper Level Elective with Lab	4
	Fine Arts	3
	Elective	3
UMHB 1005	Fine Arts Experience	0
<b>UMHR 1002</b>	Fine Arts Experience	C

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
EXAC	Activity Course	1
COMM 1320	Public Speaking	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE S	SPRING	15 Hours
BIOL 3310/3110 Genetics		4
BIOL	Biology Elective with Lab	4
CSBS 1311	Engaging the Old Testament	3
	Electives	4
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRING		16 Hours
BIOL	Biology Elective	3
MATH 2303	Statistics	3
EXAC	Activity Course	1
	World Cultures	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
BIOL	Biology Elective	2
	US History or Government	3
	Upper Level Electives	9
UMHB 1005	Fine Arts Experience	0

Total Credit Hours: 120

## Biology (B.S.)

2025-2026 Academic Catalog, Bachelor of Science – Biology 46 Hours Academic Core for B.S. 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 3 **FNGI 1322** Rhetoric & Composition II 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 1310 Drawing I 3 **ARTS 1320** Design 3 ARTS 1350 3 Art Appreciation 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 History of World Civilizations since 1500 HIST 1312 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 Introduction to Philosophy PHIL 2315 3 LAB SCIENCE 8 General Chemistry I CHEM 1410 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 BIOI 2170 1 Research Methods

#### BIOL 2171 Research Methods 1 SOCIAL SCIENCE - SELECT ONE 3 BECO 2311 Principles of Macroeconomics 3 EDUC 2399 Child and Adolescent Development 3 General Psychology PSYC 1301 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 CHAPEL-1 to 4 credits

UMHB 1002 Chapel

#### Fine Arts Experience – 2 to 8 credits

UMHB 1005 Fine Arts Experience

### Biology

B.S. BIOLOGY	MAJOR REQUIRED COURSES	33-36
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 2170	Research Methods	-
BIOL 2171	Research Methods Lab	-
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 Biol	ogy – 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	
The hours for BIO	L 2170 and BIOL 2171 are already accounted for in	the Academic Core
Biology Elective	S	
BIOL	Upper-level Elective with Lab	4
BIOL	Any Biology with Lab	4
BIOL	Biology Electives	5-6

Physiology Electiv	ve – Select one	3-4
BIOL 2330	Foundations of Comparative Physiology	
	or	
BIOL 2140	Human Anatomy & Physiology I Lab	
BIOL 2340	Human Anatomy & Physiology I	
	or	
BIOL 2180	Microbiology Lab	
BIOL 2380	Microbiology	
No grade lower that	n a "C" will count toward fulfillment of Biology major require	ments.
<b>Biolom</b> Required	Support Courses	7

Biology Required Support Courses		1
CHEM 3410	Organic Chemistry I	4
MATH 1306	College Algebra	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

lotal Hours	
Academic Core for B.S.	46
B.S. Biology Major Required Courses	33 to 36
Biology Required Support Courses	7
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