Biology (B.S.) – Pre-Optometry 2024-2025 Academic Catalog, Bachelor of Science – Biology, Pre-Optometry

Academic Core for B.S.

46 Hours

Minimum cumulative GPA

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CHRISTIAN STU	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
0505 1512	Engaging the new restament	5
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 & SPC	ORT SCIENCE - SELECT TWO DIFFERENT COURSES	2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS - SE	LECT 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
	URES – 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
PHYS 2411	General Physics I	4
		-
		3
COMM 1320	Public Speaking	3
MATHEMATICS	•	3
MATH 2303	Statistics	3
RESEARCH MET	HODS OR INTERNSHIP	2
BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1
51012171	Research methods	1
SOCIAL SCIEN		3
PSYC 1301	General Psychology	3
US HISTORY C	DR 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 SEN	AINAR	1
UMHB 1101	Freshman Seminar	<u>1</u>
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CHAPEL-1 to 4		
UMHB 1002	Chapel	
Fine Arts Experi	ence – 2 to 8 credits	
UMHB 1005	Fine Arts Experience	

Biology – Pre-Optometry

62 Hours

2.0

B.S. BIOLOGY	MAJOR REQUIRED COURSES - PRE-OPT	OMETRY 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 Elec	tives	
BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
BIOL 2340	Human Anatomy & Physiology I	3
BIOL 2140	Human Anatomy & Physiology I Lab	1
BIOL 2341	Human Anatomy & Physiology II	3
BIOL 2141	Human Anatomy & Physiology II Lab	1
BIOL 3375	Human Physiology	3
BIOL 3175	Human Physiology Lab	1
Biology Elective	oc	
BIOL	Biology Electives	1
	han a "C" will count toward fulfillment of Biology n	
REQUIRED COL	JRSES FOR PRE-OPTOMETRY	26
CHEM 1420	General Chemistry II	4
CHEM 3410	Organic Chemistry I	4
CHEM 4430	Biochemistry	4
MATH 1306	College Algebra	3
MATH 1320	Pre Calculus	3
MATH 1430	Calculus	4
PHYS 2412	General Physics II	4
Electives		13 Hours
UPPER LEVEL ELECTIVES You need 13 additional hours to reach your minimum 36 U		13 IL required bro
TOU HEEU IS at	duitional nours to reach your minimum so c	lequired firs.
Total Hours		
Academic Core for B.S.		46
B.S. Biology Ma	ajor Required Courses	36
Required Courses for Pre-Optometry		26
Upper Level Electives		13
Total hours red	quired for graduation	121
Additional Grad	duation Requirements	
Minimum Upper Level hours		
Minimum hours taken at UMHB		
Minimum Upp	24	