Biology (B.S.) — Pre-Optometry 2023-2024 Academic Catalog, Bachelor of Science — Biology, Pre-Optometry Academic Core for B.S. 46 Hours Biology-

Academic Core for B.S. 46 F CHRISTIAN STUDIES		46 Hours	Biology – Pre-Optometry B.S. BIOLOGY MAJOR REQUIRED COURSES – PRE-OP		62 Hours
		6			
CSBS 1311	Engaging the Old Testament	3	BIOL 1090	Freshman Evaluation (Freshman Only)	0
CSBS 1312	Engaging the New Testament	3	BIOL 1350	Biology for Science Majors I	3
0000 1012	21,048,118 110 11011 1 10111	J	BIOL 1150	Biology for Science Majors I Lab	1
ENGLISH		9	BIOL 1360	Biology for Science Majors II	3
ENGL 1321	Rhetoric & Composition I	3	BIOL 1160	Biology for Science Majors II Lab	1
ENGL 1321	Rhetoric & Composition II	3	BIOL 3310	Genetics	3
		3	BIOL 3110	Genetics Lab	1
ENGL ("G"	Literature		BIOL 4090	Senior Evaluation	0
A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.		22.			
EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES			BIOL 4194	Capstone Writing	1
			BIOL 4295	Capstone Seminar	2
EXAC	Activity Course	1	BIOL 4370	Applied Ecology	3
EXAC	Activity Course	1	BIOL 4170	Applied Ecology Lab	1
FINE ARTS — SELECT ONE		3	Physiology Electives		
ARTS 1350	Art Appreciation	3	BIOL 2380	Microbiology	3
COMM 2335	Film Appreciation	3	BIOL 2180	Microbiology Lab	1
			BIOL 2340	Human Anatomy & Physiology I	3
FINA 2330	Exploring the Fine Arts	3	BIOL 2140	Human Anatomy & Physiology I Lab	1
MUSI 1340	Music Appreciation	3	BIOL 2341	Human Anatomy & Physiology II	3
THEA 2350	Introduction to the Theatre	3	BIOL 2141	Human Anatomy & Physiology II Lab	1
			BIOL 3375	Human Physiology	3
WORLD CULT	URES – SELECT ONE	3	BIOL 3175	Human Physiology Lab	1
ARTS 2354	World Art	3	DIOL 31/3	Human Physiology Lab	1
EXSS 2353	Lifespan Nutrition	3	Dialas - Flash		
GLBL 2310	Cultural Immersion	3	Biology Elective		
HIST 1311	History of World Civilizations to 1500	3	BIOL	Biology Electives	1
HIST 1311	History of World Civilizations to 1500	3	No grade lower t	han a "C" will count toward fulfillment of Biology majo	r requirement
	World Music				
MUSI 2358		3		JRSES FOR PRE-OPTOMETRY	26
PHIL 2315	Introduction to Philosophy	3	CHEM 1420	General Chemistry II	4
I AD COURTION		•	CHEM 3410	Organic Chemistry I	4
LAB SCIENCE		8	CHEM 4430	Biochemistry	4
CHEM 1410	General Chemistry I	4	MATH 1306	College Algebra	3
PHYS 2411	General Physics I	4	MATH 1320	Pre Calculus	3
			MATH 1430	Calculus	4
PUBLICSPEAKING		3	PHYS 2412	General Physics II	4
COMM 1320	Public Speaking	3			
MATHEMATICS	i	3	Electives	1	L3 Hours
MATH 2303	Statistics	3	Licetives	•	LS HOUIS
RESEARCH METHODS OR INTERNSHIP		2	UPPER LEVEL		13
BIOL 2170	Research Methods	1	You need 13 ac	dditional hours to reach your minimum 36 UL re	equired hrs.
BIOL 2171	Research Methods	1			
BIOL 21/1	Research Methous	1	Total Hours		
SOCIAL SCIEN	ICF.	3	Academic Core	for B.C	46
PSYC 1301	General Psychology	3			
PSYC 1301	General Psychology	3		ajor Required Courses	36
IIC HISTORY	OR US GOVERNMENT – SELECT ONE	3	'	ses for Pre-Optometry	26
HIST 2311	American History to 1877	3	Upper Level Ele		13
	· · · · · · · · · · · · · · · · · · ·		Total hours red	quired for graduation	121
HIST 2312	American History since 1877	3			
POLS 2305	United States Government	3	Additional Grad	duation Requirements	
POLS 2306	Texas State and Local Government	3	Minimum Upp	er Level hours	36
EDECLIBATAN CENTINAD		_	Minimum hours taken at UMHB		30
FRESHMAN SE		<u> </u>		er Level hours taken at UMHB	24
UMHB 1101	Freshman Seminar	1	Minimum cum		2.0
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
Fine Arts Experi	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				
	•				