Biology (B.S.) – Pre-Optometry – Foreign Language

Academic Core for B.S.

54 Hours **Biology** – Pre-Optometry

62 Hours

30

24

2.0

Academic	Core for B.S.	54 Hours	Biology – P	re-Optometry
CHRISTIAN STUDIES		6	6 B.S. BIOLOGY MAJOR REQUIRED	
CSBS 1311	Engaging the Old Testament	3	BIOL 1350	Biology for Science Majors I
CSBS 1312	Engaging the New Testament	3	BIOL 1150	Biology for Science Majors I
			BIOL 1360	Biology for Science Majors I
ENGLISH		9	BIOL 1160	Biology for Science Majors I
ENGL 1321	Rhetoric & Composition I	3	BIOL 3310	Genetics
ENGL 1322	Rhetoric & Composition II	3	BIOL 3110	Genetics Lab
ENGL	Literature	3	BIOL 4090	Senior Evaluation
A grade of a "C'	or higher is required in ENGL 1321 and ENGL 132	22.	BIOL 4194 BIOL 4295	Capstone Writing Capstone Seminar
EXERCISE & SPO	DRT SCIENCE - SELECT TWO DIFFERENT COURSE	5 2	BIOL 4293 BIOL 4370	Applied Ecology
XAC	Activity Course	1	BIOL 4170	Applied Ecology Lab
EXAC	Activity Course	1		
-INE ARTS - SE		3	Physiology Ele BIOL 2380	ctives Microbiology
		3	BIOL 2380	Microbiology Lab
ARTS 1350	Art Appreciation		BIOL 2340	Human Anatomy & Physiolo
COMM 2335	Film Appreciation	3	BIOL 2140	Human Anatomy & Physiolo
INA 2330	Exploring the Fine Arts	3	BIOL 2341	Human Anatomy & Physiolo
MUSI 1340	Music Appreciation	3	BIOL 2141	, Human Anatomy & Physiolo
FHEA 2350	Theatre Appreciation	3	BIOL 3375	Human Physiology
	URES – SELECT ONE	3	BIOL 3175	Human Physiology Lab
ARTS 2354	World Art	3	Diele – Cleativ	
EXSS 2353	Lifespan Nutrition	3	Biology Electiv BIOL	es Biology Electives
GLBL 2310	Cultural Immersion	3		han a "C" will count toward fulfillme
HIST 1311	History of World Civilizations to 1500	3	No grade lower l	nan'a C wiii count towara juijiiirie
HIST 1312	History of World Civilizations since 1500	3	REQUIRED COL	JRSES FOR PRE-OPTOMETRY
HUMA 2355	Foundations of the Humanities	3	CHEM 1420	General Chemistry II
MUSI 2358	World Music	3	CHEM 3410	Organic Chemistry I
PHIL 2315	Introduction to Philosophy	3	CHEM 4430	Biochemistry
		-	MATH 1306	College Algebra
AB SCIENCE		8	MATH 1320	Pre Calculus
CHEM 1410	General Chemistry I	4	MATH 1430	Calculus
PHYS 2411	General Physics I	4	PHYS 2412	General Physics II
PUBLIC SPEAKI	NG	3	Electives	
COMM 1320	Public Speaking	3		
MATHEMATICS	5	3	Vou need 13 a	dditional hours to reach your m
MATH 2303	Statistics	3	four field 15 u	
RESEARCHIMET	THODS OR INTERNSHIP	2	Tabal Harma	
BIOL 2170	Research Methods	1	Total Hours	forDC
			Academic Core	
BIOL 2171	Research Methods	1		sis – Foreign Language ajor Required Courses
SOCIAL SCIEN	CE	3		ses for Pre-Optometry
PSYC 1301	General Psychology	3	Upper Level El	
		2	Total hours ree	quired for graduation
HIST 2311	DR US GOVERNMENT – SELECT ONE American History to 1877	3		
HIST 2311 HIST 2312	American History since 1877	3		duation Requirements
POLS 2305	United States Government	3	Minimum Upp	
POLS 2305	Texas State and Local Government	3		rs taken at UMHB
10132300	Texas state and Local Government	5	Minimum Upp Minimum cum	er Level hours taken at UMHB
FRESHMAN SEI		1	Winimamean	
UMHB 1101	Freshman Seminar	1		
GLOBAL EMP	HASIS – FOREIGN LANGUAGE	8		
8 credit hours (2 semesters or the equivalent) in one languag	ge 8		
CHAPEL-1 to 4	credits			
UMHB 1002	Chapel			
Fine Arts Fyneri	ence – 2 to 8 credits			
LIMHB 1005	Fine Arts Experience			

UMHB 1005 Fine Arts Experience

B.S. BIOLOGY	MAJOR REQUIRED COURSES - PRE-OPTON	VIETRY 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	25			
BIOL	Biology Electives	1		
No grade lower th	nan a "C" will count toward fulfillment of Biology maj	or requirements		
REQUIRED COU	IRSES 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	13		
You need 13 ac	lditional hours to reach your minimum 36 UL	required hrs.		
Total Hours				
Academic Core	for B.S.	46		
Global Emphasis – Foreign Language				
B.S. Biology Major Required Courses				
Required Courses for Pre-Optometry 2				
Jpper Level Electives 13				
Total hours req	uired for graduation	129		
Additional Grad	luation Requirements			
Minimum Uppe	er Level hours	36		