Biology (B.S.) – Pre-Veterinary 2022-2023 Academic Catalog, Bachelor of Science – Biology, Pre-Veterinary

Academic Core for B.S.

46 Hours

CHRISTIAN STUD		(
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	1
ENGL	Literature	3
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.	
EXERCISE & SPO	RT SCIENCE	:
EXAC	Activity Course	-
EXAC	Activity Course	
FINE ARTS - SEL	LECT ONE	:
ARTS 1350	Art Appreciation	
COMM 2335	Film Appreciation	
FINA 2330	Exploring the Fine Arts	
MUSI 1340	Music Appreciation	
THEA 2350	Introduction to the Theatre	
WORLD CULTL ARTS 2354	JRES – SELECT ONE World Art	
EXSS 2353	Lifespan Nutrition	
HIST 1311	History of World Civilizations to 1500	
HIST 1312	History of World Civilizations since 1500	
MUSI 2358	World Music	
PHIL 2315	Introduction to Philosophy	
LAB SCIENCE		:
CHEM 1410	General Chemistry I	4
PHYS 2411	General Physics I	2
PUBLIC SPEAKIN		
COMM 1320	Public Speaking	3
MATHEMATICS MATH 2303	Statistics	
IVIATE 2505	Statistics	
	HODS OR INTERNSHIP	
BIOL 2170	Research Methods	
BIOL 2171	Research Methods	
	CE – SELECT ONE	
BECO 2310	Principles of Economics	
PSYC 1301	General Psychology	
PSYC 2399	Child and Adolescent Development	
SOCI 1311	Introduction to Sociology	
SOCW 2311	Introduction to Social Work	
	R US GOVERNMENT	
HIST 2311	American History to 1877	3
FRESHMAN SEM	IINAR	
UMHB 1101	Freshman Seminar	
CHAPEL-1 to 4	credits	

Fine Arts Experience – 2 to 8 credits UMHB 1005 Fine Arts Experience

Biology – Pre-Veterinary

B.S. BIOLOGY	MAJOR REQUIRED COURSES - PRE-VETERINARY	36
BIOL 1090	Freshman Evaluation (Freshman Only)	0
BIOL 1350	Biomolecules, Genes, and Cells	3
BIOL 1150	Biomolecules, Genes, and Cells Lab	1
BIOL 1360	Organisms, Populations, and Ecosystems	3
BIOL 1160	Organisms, Populations, and Ecosystems 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
5102 4170	Applied Ecology Edo	1
Physiology Elec	tives	
BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
Biology Elective		4
BIOL	Biology Upper Level with Lab	4 4
BIOL	Any Biology with Lab	
BIOL	Biology Electives	. 5
No grade lower th	nan a "C" will count toward fulfillment of Biology major requ	irements
REQUIRED COU	IRSES FOR PRE-VETERINARY	29
CHEM 1420	General Chemistry II	4
CHEM 3410	Organic Chemistry I	4
		4 4
CHEM 3410	Organic Chemistry I	
CHEM 3410 CHEM 3420	Organic Chemistry I Organic Chemistry II	4
CHEM 3410 CHEM 3420 CHEM 4430	Organic Chemistry I Organic Chemistry II Biochemistry	4 4
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra	4 4 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus	4 4 3 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II	4 4 3 3 4
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 3 3 4 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 4 3 4 3 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 3 3 4 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 4 3 4 3 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Electives	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 4 3 4 3 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Electives	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 4 3 4 3 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele Electives	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 3 4 3 6 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Electives Total Hours Academic Core B.S. Biology Ma	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing	4 3 3 4 3 6 3 46
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Electives Total Hours Academic Core B.S. Biology Ma	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses ses for Pre-Veterinary	4 3 3 4 3 6 3 4 6 3 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Electives Total Hours Academic Core B.S. Biology Ma Required Cours	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses ses for Pre-Veterinary	4 3 4 3 6 3 46 36 29
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele Electives Total Hours Academic Core B.S. Biology Ma Required Cours Upper Level Ele Electives	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses ses for Pre-Veterinary	4 3 4 3 6 3 46 36 29 6
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele Electives Total Hours Academic Core B.S. Biology Ma Required Cours Upper Level Ele Electives Total hours req	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses sets for Pre-Veterinary ectives uired for graduation	4 3 4 3 6 3 46 36 29 6 3
CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele Electives Total Hours Academic Core B.S. Biology Ma Required Cours Upper Level Ele Electives Total hours req Additional Grad	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses ses for Pre-Veterinary ectives uired for graduation duation Requirements	4 3 4 3 6 3 46 36 29 6 3 120
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CHEM 3410 CHEM 3420 CHEM 4430 MATH 1306 MATH 1320 PHYS 2412 WRIT 3344 Upper Level Ele Electives Total Hours Academic Core B.S. Biology Ma Required Cours Upper Level Ele Electives Total hours req Additional Grac Minimum Uppe Minimum hour	Organic Chemistry I Organic Chemistry II Biochemistry College Algebra Pre Calculus General Physics II Scientific Writing ectives for B.S. jor Required Courses ses for Pre-Veterinary ectives uired for graduation duation Requirements er Level hours s taken at UMHB	4 4 3 4 3 6 3 6 3 6 3 120 3 6 3 120
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