## Bioinformatics (B.S.) — Study Abroad 2024-2025 Academic Catalog, Bachelor of Science — Bioinformatics, Global Emphasis: Study Abroad

Academic Core for B.S. 49		Hours	CHAPEL – 1 to 4 credits		
CHRISTIAN STU	DIES	6	UMHB 1002	Chapel	
CSBS 1311 CSBS 1312	Engaging the Old Testament	3		ence – 2 to 8 credits	
LJB3 131Z	Engaging the New Testament	3	UMHB 1005	Fine Arts Experience	
ENGLISH		9	5: : 6		
ENGL 1321	Rhetoric & Composition I	3	Bioinforma	atics 62 Ho	our
ENGL 1322	Rhetoric & Composition II	3	DIOLOGY		
ENGL	Literature	3	BIOLOGY	Dialogy for Coionea Majora I	1
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.		BIOL 1350	Biology for Science Majors I	
		_	BIOL 1350	Biology for Science Majors I Lab	
	ORT SCIENCE – SELECT TWO DIFFERENT COURSES	2	BIOL 1360 BIOL 1160	Biology for Science Majors II Biology for Science Majors II Lab	
EXAC	Activity Course	1	BIOL 3310	Genetics	
EXAC	Activity Course	1	BIOL 3110	Genetics Lab	
FINIT ADTC CE	TECTONE	2	BIOL 4305	Cell Biology	
FINE ARTS — SE		<u>3</u>	BIOL 4105	Cell Biology Lab	
ARTS 1350	Art Appreciation	3	BIOL 4375	Bioinformatics	
COMM 2335	Film Appreciation	3			
FINA 2330	Exploring the Fine Arts	3	MATHEMATIC	CS	1
MUSI 1340	Music Appreciation	3	MATH 1430	Calculus I	
THEA 2350	Theatre Appreciation	3	MATH 2303	Statistics	
			MATH 2320	Linear Algebra	
WORLD CULT	URES – SELECT ONE	3	MATH 2430	Calculus II	
ARTS 2354	World Art	3	MATH	Mathematics Elective (upper level)	
EXSS 2353	Lifespan Nutrition	3	COMPLITED	CIENCE	
GLBL 2310	Cultural Immersion	3	COMPUTER S		1
HIST 1311	History of World Civilizations to 1500	3	CISC 1305	Introduction to Computing	
HIST 1312	History of World Civilizations since 1500	3	CISC 2315 CISC 2330	Discrete Structures of Computer & Eng. Sciences Introduction to Object-Oriented Programming	
HUMA 2355	Foundations of the Humanities	3	CISC 3323	Algorithms & Data Structures	
MUSI 2358	World Music	3	CISC 4327	Database Theory and Application	
PHIL 2315	Introduction to Philosophy	3	CISC 4327	Computer Science Elective (upper level)	
LAB SCIENCE		8	CISC	computer science Elective (upper level)	
	Caranal Chamistan I	4	CHEMISTRY		
CHEM 1410	General Chemistry I		CHEM 3410	Organic Chemistry I	
CHEM 1420	General Chemistry II	4	CHEM 4430	Biochemistry	
PUBLIC SPEAKIN	NG	3			
COMM 1320	Public Speaking	3	Electives	9 Ho	our
, ,		_	UPPER LEVEL	ELECTIVES	
MATHEMATICS  MATH 1306 College Algebra or higher		<b>3</b>	You need 3 add	ditional hours to reach your minimum 36 UL required	
IVIATH 1300	College Algebra or nigher	3	EL E CTIV (EC		
SOCIAL SCIEN	CE – SELECT ONE	3	Vou pood 6 add	ditional hours to reach your minimum 120 required hr	c
BECO 2310	Principles of Economics	3	Tou need 6 auc	ational flours to reach your millimum 120 required in	5.
PSYC 1301	General Psychology	3			
PSYC 2399	Child and Adolescent Development	3	Total Hours		
SOCI 1311	Introduction to Sociology	3		Academic Core for B.S.	
SOCW 2311	Introduction to Social Work	3		is – Study Abroad	4
	LIC LUCTORY OR LIC COVERNMENT CELECT ONE		Biology	is staay haroad	19
HE HICTORY	OR US GOVERNMENT – SELECT ONE	<b>3</b>	Mathematics		1
	American History + 1077	- ≺		nce	1
HIST 2311	American History to 1877		Computer Scie		
HIST 2311 HIST 2312	American History since 1877	3	Computer Sciel Chemistry		
HIST 2311 HIST 2312 POLS 2305	American History since 1877 United States Government	3 3	•		
HIST 2311 HIST 2312 POLS 2305	American History since 1877	3	Chemistry		
HIST 2311 HIST 2312 POLS 2305 POLS 2306	American History since 1877 United States Government Texas State and Local Government	3 3 3	Chemistry Upper Level Ele Electives		
HIST 2311 HIST 2312 POLS 2305 POLS 2306	American History since 1877 United States Government	3 3	Chemistry Upper Level Ele Electives	ectives	
HIST 2311 HIST 2312 POLS 2305 POLS 2306 RESEARCH MI	American History since 1877 United States Government Texas State and Local Government  ETHODS OR INTERNSHIP	3 3 3	Chemistry Upper Level Ele Electives Total hours rec	ectives	
HIST 2311 HIST 2312 POLS 2305 POLS 2306 RESEARCH MI BIOL 4185	American History since 1877 United States Government Texas State and Local Government  ETHODS OR INTERNSHIP  Bioinformatics Research Capstone	3 3 3	Chemistry Upper Level Ele Electives Total hours rec	guired for graduation	12
HIST 2311 HIST 2312 POLS 2305 POLS 2306 <b>RESEARCH MI</b> BIOL 4185 BIOL 4185	American History since 1877 United States Government Texas State and Local Government  ETHODS OR INTERNSHIP  Bioinformatics Research Capstone Bioinformatics Research Capstone	3 3 3	Chemistry Upper Level Ele Electives Total hours rec  Additional Grac Minimum Uppe	guired for graduation	<b>12</b>
HIST 2311 HIST 2312 POLS 2305 POLS 2306 RESEARCH MI BIOL 4185 BIOL 4185	American History since 1877 United States Government Texas State and Local Government  ETHODS OR INTERNSHIP  Bioinformatics Research Capstone Bioinformatics Research Capstone	3 3 3 <b>2</b> 1 1	Chemistry Upper Level Ele Electives Total hours rec  Additional Grac Minimum Uppor	quired for graduation duation Requirements er Level hours	<b>12</b>
HIST 2311 HIST 2312 POLS 2305 POLS 2306 RESEARCH MI BIOL 4185	American History since 1877 United States Government Texas State and Local Government  ETHODS OR INTERNSHIP  Bioinformatics Research Capstone Bioinformatics Research Capstone	3 3 3 2 1 1	Chemistry Upper Level Ele Electives Total hours rec  Additional Grac Minimum Uppor	quired for graduation duation Requirements er Level hours s taken at UMHB er Level hours taken at UMHB	30 30 24 2.0