## Bioinformatics (B.S.) — Study Abroad 2023-2024 Academic Catalog, Bachelor of Science — Bioinformatics, Global Emphasis: Study Abroad

Academic C	Core for B.S.	49 Hours	CHAPEL – 1 to 4 credits		
CHRISTIAN STUI	DIES	6	UMHB 1002	Chapel	
CSBS 1311	Engaging the Old Testament	3			
CSBS 1311 CSBS 1312	Engaging the Old Testament Engaging the New Testament	3		ience – 2 to 8 credits	
C3D3 1312	Engaging the New Testament	3	UMHB 1005	Fine Arts Experience	
ENGLISH		9	Bioinforma	ation.	C2 Hours
ENGL 1321	Rhetoric & Composition I	3	DIOITIOTTI	aucs	62 Hours
ENGL 1322	Rhetoric & Composition II	3	BIOLOGY		10
ENGL	Literature	3	BIOL 1350	Biology for Science Majors I	19
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1	322.	BIOL 1150	Biology for Science Majors I Lab	1
EVEDASE 9. SDA	ORT SCIENCE - SELECT TWO DIFFERENT COURS	SES 2	BIOL 1360	Biology for Science Majors II	3
			BIOL 1160	Biology for Science Majors II Lab	1
EXAC	Activity Course	1	BIOL 3310	Genetics	3
EXAC	Activity Course	1	BIOL 3110	Genetics Lab	1
FINE ARTS — SELECT ONE		3	BIOL 4305	Cell Biology	3
		_	BIOL 4105	Cell Biology Lab	1
ARTS 1350	Art Appreciation	3	BIOL 4375	Bioinformatics	3
COMM 2335	Film Appreciation	3			
FINA 2330	Exploring the Fine Arts	3	MATHEMATI		17
MUSI 1340	Music Appreciation	3	MATH 1430	Calculus I	4
THEA 2350	Introduction to the Theatre	3	MATH 2303	Statistics	3
			MATH 2320	Linear Algebra	3
	URES – SELECT ONE	3	MATH 2430	Calculus II	4
ARTS 2354	World Art	3	MATH	Mathematics Elective (upper level)	3
EXSS 2353	Lifespan Nutrition	3	COMPUTER S	CIENCE	18
GLBL 2310	Cultural Immersion	3	CISC 1305	Introduction to Computing	3
HIST 1311	History of World Civilizations to 1500	3	CISC 2315	Discrete Structures of Computer & Eng.	
HIST 1312	History of World Civilizations since 1500		CISC 2330	Introduction to Object-Oriented Program	
MUSI 2358	World Music	3	CISC 3323	Algorithms & Data Structures	3
PHIL 2315	Introduction to Philosophy	3	CISC 4327	Database Theory and Application	3
LAB SCIENCE		8	CISC	Computer Science Elective (upper level)	3
CHEM 1410	General Chemistry I	4		,	
	,	4	CHEMISTRY		8
CHEM 1420	General Chemistry II	4	CHEM 3410	Organic Chemistry I	4
PUBLIC SPEAKIN	IG	3	CHEM 4430	Biochemistry	4
COMM 1320	Public Speaking	3	Clastines		9 Hours
	-	_	Electives		9 Hours
MATHEMATICS MATH 1306	College Algebra <i>or higher</i>	<b>3</b>	UPPER LEVEL ELECTIVES		
IVIATH 1300	College Algebra or riigher	3	You need 3 add	ditional hours to reach your minimum 36 UL	required hrs.
SOCIAL SCIEN	CE – SELECT ONE	3	ELECTIVES		6
BECO 2310	Principles of Economics	3		ditional hours to reach your minimum 120 r	
PSYC 1301	General Psychology	3			equil eu moi
PSYC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology	3	Total Hours		
SOCW 2311	Introduction to Social Work	3	Academic Core for B.S. 46		46
US HISTORY OR US GOVERNMENT – SELECT ONE 3		2	Global Emphasis – Study Abroad		
	American History to 1877	3	Biology		19
HIST 2311 HIST 2312	American History to 1877  American History since 1877	3	Mathematics		17
POLS 2305	United States Government	3	Computer Scie	nce	18
POLS 2306	Texas State and Local Government	3	Chemistry		8
. 525 2500	. s.as state and Escal Government	5	Upper Level Ele	ectives	3
RESEARCH ME	THODS OR INTERNSHIP	2	Electives		6
BIOL 4185	Bioinformatics Research Capstone	1	Total hours red	quired for graduation	120
BIOL 4185	Bioinformatics Research Capstone	1			
EDECLIBATE CO	AINIA D			duation Requirements	
FRESHMAN SEMINAR 1		_	Minimum Upper Level hours		36
	Freshman Seminar	1	Minimum hour	s taken at UMHB	30
UMHB 1101			Maining 11	Minimum Upper Level hours taken at UMHB 24 Minimum cumulative GPA 2.0	
UMHB 1101	HASIS – STUDY ABROAD	3			2.0