Computer Science (B.S.) — Data Analysis and Visualization — Study Abroad 2022-2023 Academic Catalog, Bachelor of Science — Computer Science, Data Analysis and Visualization Specialization, Global Emphasis: Study Abroad Computer Science

Academic Core for B.S. CHRISTIAN STUDIES		44 Hours	Computer Science		
		6	B.S. COMPUTER SCIENCE MAJOR REQUIRED COURSES		2
CSBS 1311	Engaging the Old Testament	3	CISC 2315	Discrete Structures of Computer & Eng. Sciences	
CSBS 1312	Engaging the New Testament	3	CISC 2330	Introduction to Object-Oriented Programming	
			CISC 3321	Object Oriented Development	
ENGLISH		9	CISC 3322	Web Development	
ENGL 1321	Rhetoric & Composition I	3	CISC 3323	Algorithms & Data Structures	3
ENGL 1322	Rhetoric & Composition II	3	CISC 3325	Telecommunications & Networks	
ENGL	Literature	3	CISC 3341	Operating Systems	3
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 13.	22.	CISC 3360 CISC 4327	Computer Organization & Architecture Database Theory and Application	
EXERCISE & SPC	DRT SCIENCE	2	Practical Exper	ience – 300 Hrs. of Practical Work	
EXAC	Activity Course	1	RECHIRED SI	JPPORT COURSES	1
EXAC	Activity Course	1	CISC 1305	Introduction to Computing	1
	,		CISC 4370	Computer Science & Engineering Ethics Seminar	
FINE ARTS — SE	ELECT ONE	3	MATH 2320	Linear Algebra	
ARTS 1350	Art Appreciation	3	WRIT 3344	Scientific Writing	
COMM 2335	Film Appreciation	3	WINI 3344	Scientific Withing	
FINA 2330	Exploring the Fine Arts	3	DATA ANALY	SIS AND VIS. SPECIALIZATION – SELECT THREE	
	· -		CISC 4324	Network Security	
MUSI 1340	Music Appreciation	3	CISC 4325	Network Security II: Cryptography	
THEA 2350	Introduction to the Theatre	3	CISC 4328	Computer Security	
		_	CISC 4310	Artificial Intelligence	
	URES – SELECT ONE	3	CISC 4335	Big Data	
ARTS 2354	World Art	3		Data Analysis and Visualization	
EXSS 2353	Lifespan Nutrition	3	CISC 4340	· · · · · · · · · · · · · · · · · · ·	
HIST 1311	History of World Civilizations to 1500	3	CISC 4347	Graphics Programming	
HIST 1312	History of World Civilizations since 1500	3			
MUSI 2358	World Music	3			
PHIL 2315	Introduction to Philosophy	3	Electives	25	Hour
LAB SCIENCE		8			
	Laboratory Science Courses	8	Total Hours		
			Academic Core		44
PUBLIC SPEAKIN	NG	3		sis – Study Abroad	3
COMM 1320	Public Speaking	3	B.S. Computer	Science Major Required Courses	2
			Required Supp	ort Courses	1
MATHEMATICS)	3	Data Analysis a	and Visualization Specialization	
MATH 1330	Calculus I	3	Electives	unicad for graduation	2 12
SOCIAL SCIEN	CE – SELECT ONE	3	rotal nours red	quired for graduation	12
BECO 2310	Principles of Economics	3	Additional Grad	duation Requirements	
PSYC 1301	General Psychology	3	Minimum Upp	•	3
PSYC 2399	Child and Adolescent Development	3		rs taken at UMHB	3
SOCI 1311	Introduction to Sociology	3		er Level hours taken at UMHB	2
SOCW 2311		3			
30CW 2311	Introduction to Social Work	3	Minimum cum	ulative GPA	2.
	OR US GOVERNMENT – SELECT ONE American History to 1877	3			
HIST 2311	•	3			
HIST 2312	American History since 1877				
POLS 2310 POLS 2311	State and Federal Government I State and Federal Government II	3 3			
	ETHODS OR INTERNSHIP				
	ence – 300 Hrs. of Practical Work	-			
FRESHMAN SEN	MINIAD	1			
UMHB 1101	Freshman Seminar	<u>_</u>			
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GLORAL EMP	HASIS – STUDY ABROAD Study Abroad	3			
CILADE!	,	J			
CHAPEL – 1 to 4 UMHB 1002	credits Chapel				
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	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				