

Computer Science (B.S.) – Data Analysis and Visualization – Foreign Language

2024-2025 Academic Catalog, Bachelor of Science – Computer Science, Data Analysis and Visualization Specialization, Global Emphasis: Foreign Language

Academic Core for B.S.		53 Hours	Computer Science		48 Hours
CHRISTIAN STUDIES		6	B.S. COMPUTER SCIENCE MAJOR REQUIRED COURSES		27
CSBS 1311	Engaging the Old Testament	3	CISC 2315	Discrete Structures of Computer & Eng. Sciences	3
CSBS 1312	Engaging the New Testament	3	CISC 2330	Introduction to Object-Oriented Programming	3
ENGLISH		9	CISC 3321	Object Oriented Development	3
ENGL 1321	Rhetoric & Composition I	3	CISC 3322	Web Development	3
ENGL 1322	Rhetoric & Composition II	3	CISC 3323	Algorithms & Data Structures	3
ENGL	Literature	3	CISC 3325	Telecommunications & Networks	3
<i>A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.</i>			CISC 3341	Operating Systems	3
EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2	CISC 3360	Computer Organization & Architecture	3
EXAC	Activity Course	1	CISC 4327	Database Theory and Application	3
EXAC	Activity Course	1	Practical Experience – 300 Hrs. of Practical Work		-
FINE ARTS – SELECT ONE		3	REQUIRED SUPPORT COURSES		12
ARTS 1350	Art Appreciation	3	CISC 1305	Introduction to Computing	3
COMM 2335	Film Appreciation	3	CISC 4370	Computer Science & Engineering Ethics Seminar	3
FINA 2330	Exploring the Fine Arts	3	MATH 2320	Linear Algebra	3
MUSI 1340	Music Appreciation	3	WRIT 3344	Scientific Writing	3
THEA 2350	Theatre Appreciation	3	DATA ANALYSIS AND VIS. SPECIALIZATION – SELECT THREE		9
WORLD CULTURES – SELECT ONE		3	CISC 4324	Network Security	3
ARTS 2354	World Art	3	CISC 4325	Network Security II: Cryptography	3
EXSS 2353	Lifespan Nutrition	3	CISC 4328	Computer Security	3
GLBL 2310	Cultural Immersion	3	CISC 4310	Artificial Intelligence	3
HIST 1311	History of World Civilizations to 1500	3	CISC 4335	Big Data	3
HIST 1312	History of World Civilizations since 1500	3	CISC 4340	Data Analysis and Visualization	3
HUMA 2355	Foundations of the Humanities	3	CISC 4347	Graphics Programming	3
MUSI 2358	World Music	3	Electives		19 Hours
PHIL 2315	Introduction to Philosophy	3	ELECTIVES		19
LAB SCIENCE		8	You need 19 additional hours to reach your minimum 120 required hrs.		
Laboratory Science Courses		8	Total Hours		
PUBLIC SPEAKING		3	Academic Core for B.S.	45	
COMM 1320	Public Speaking	3	Global Emphasis – Foreign Language	8	
MATHEMATICS		4	B.S. Computer Science Major Required Courses	27	
MATH 1430	Calculus I	4	Required Support Courses	12	
SOCIAL SCIENCE – SELECT ONE		3	Data Analysis and Visualization Specialization	9	
BECO 2310	Principles of Economics	3	Electives	19	
PSYC 1301	General Psychology	3	Total hours required for graduation	120	
PSYC 2399	Child and Adolescent Development	3	Additional Graduation Requirements		
SOCI 1311	Introduction to Sociology	3	Minimum Upper Level hours	36	
SOCW 2311	Introduction to Social Work	3	Minimum hours taken at UMHB	30	
US HISTORY OR US GOVERNMENT – SELECT ONE		3	Minimum Upper Level hours taken at UMHB	24	
HIST 2311	American History to 1877	3	Minimum cumulative GPA	2.0	
HIST 2312	American History since 1877	3			
POLS 2305	United States Government	3			
POLS 2306	Texas State and Local Government	3			
RESEARCH METHODS OR INTERNSHIP		-			
Practical Experience – 300 Hrs. of Practical Work		-			
FRESHMAN SEMINAR		1			
UMHB 1101	Freshman Seminar	1			
GLOBAL EMPHASIS – FOREIGN LANGUAGE		8			
8 credit hours (2 semesters or the equivalent) in one language		8			
CHAPEL – 1 to 4 credits					
UMHB 1002	Chapel				
Fine Arts Experience – 2 to 8 credits					
UMHB 1005	Fine Arts Experience				