## Computer Science (B.S.) – Network-Centric Specialization – Foreign Language 2024-2025 Academic Catalog, Bachelor of Science – Computer Science, Network-Centric Specialization, Global Emphasis: Foreign Language

**Computer Science** 

## Academic Core for B.S.

53 Hours

CHRISTIAN STUI	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		ç
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	З
	or higher is required in ENGL 1321 and ENGL 1322.	
EXERCISE & SPO	RT SCIENCE – SELECT TWO DIFFERENT COURSES	2
EXAC	Activity Course	-
EXAC	Activity Course	-
FINE ARTS - SEI	LECT ONE	3
ARTS 1350	Art Appreciation	
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340		:
	Music Appreciation	1
THEA 2350	Theatre Appreciation	3
	JRES – SELECT ONE	:
ARTS 2354	World Art	-
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	1
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HUMA 2355	Foundations of the Humanities	Ξ
MUSI 2358	World Music	З
PHIL 2315	Introduction to Philosophy	3
LAB SCIENCE		8
	Laboratory Science Courses	8
PUBLIC SPEAKIN	G	3
COMM 1320	Public Speaking	3
MATHEMATICS		4
MATH 1430	Calculus I	2
SOCIAL SCIEN	CE – SELECT ONE	3
BECO 2310	Principles of Economics	-
PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3
SOCI 1311	Introduction to Sociology	3
SOCW 2311	Introduction to Social Work	3
US HISTORY O	R US GOVERNMENT – SELECT ONE	3
HIST 2311	American History to 1877	100
HIST 2312	American History since 1877	3
POLS 2305	United States Government	3
POLS 2306	Texas State and Local Government	3
	THODS OR INTERNSHIP	
Practical Experie	ence – 300 Hrs. of Practical Work	
FRESHMAN SEN	/INAR	
UMHB 1101	Freshman Seminar	-
GLOBAL EMPH	IASIS – FOREIGN LANGUAGE	٤
8 credit hours (2	2 semesters or the equivalent) in one language	8
CHAPEL-1 to 4	credits	
UMHB 1002	Chapel	
Fine Arts Experie	ence – 2 to 8 credits	
UMHB 1005	Fine Arts Experience	

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B.S. COMPUT	ER SCIENCE MAJOR REQUIRED COURSES	27
CISC 2315	Discrete Structures of Computer & Eng. Sciences	3
CISC 2330	Introduction to Object-Oriented Programming	3
CISC 3321	Object Oriented Development	3
CISC 3322	Web Development	3
CISC 3323	Algorithms & Data Structures	3
CISC 3325	Telecommunications & Networks	3
CISC 3341	Operating Systems	3
CISC 3360	Computer Organization & Architecture	3
CISC 4327	Database Theory and Application	3
Practical Exper	ience – 300 Hrs. of Practical Work	-
REQUIRED SU	JPPORT COURSES	12
CISC 1305	Introduction to Computing	3
CISC 4370	Computer Science & Engineering Ethics Seminar	3
MATH 2320	Linear Algebra	3
WRIT 3344	Scientific Writing	3
NETWORK-CE	ENTRIC SPECIALIZATION – SELECT THREE	9
CISC 4324	Network Security	3
CISC 4325	Network Security II: Cryptography	3
CISC 4328	Computer Security	3
CISC 4310	Artificial Intelligence	3
CISC 4335	Big Data	3
CISC 4340	Data Analysis and Visualization	3
CISC 4347	Graphics Programming	3
Electives	19 Hc	ours
ELECTIVES		19
You need 19 ad	dditional hours to reach your minimum 120 required h	nrs.
Total Hours		45
	Academic Core for B.S. Global Emphasis – Foreign Language	
		8

48 Hours

Academic core for b.s.	15			
Global Emphasis – Foreign Language	8			
B.S. Computer Science Major Required Courses	27			
Required Support Courses	12			
Network-Centric Specialization	9			
Electives	19			
Total hours required for graduation	120			
Additional Graduation Requirements				

Minimum Upper Level hours	36
Minimum hours taken at UMHB	30
Minimum Upper Level hours taken at UMHB	
Minimum cumulative GPA	2.0