## Computer Science (B.S.) – Network-Centric Specialization

2025-2026 Academic Catalog, Bachelor of Science – Computer Science, Network-Centric Specialization

	Core for B.S. 48 H	ours	Computer	Science 48 F	.Ju
CHRISTIAN STUDIES		6	B.S. COMPUT	UTER SCIENCE MAJOR REQUIRED COURSES	
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	
NGLISH		9	CISC 3322	Web Development	
NGL 1321	Rhetoric & Composition I	3	CISC 3323	Algorithms & Data Structures	
ENGL 1322	Rhetoric & Composition II	3	CISC 3325	Telecommunications & Networks	
ENGL	Literature	3	CISC 3341	Operating Systems	
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.		CISC 3360	Computer Organization & Architecture	
			CISC 4327	Database Theory and Application	
XERCISE & SPO	ORT SCIENCE – SELECT TWO DIFFERENT COURSES	2	Practical Experi	ience – 300 Hrs. of Practical Work	
EXAC	Activity Course	1	DEOLUBED CI	IDDORT COURCES	
EXAC	Activity Course	1	CISC 1305	JPPORT COURSES  Introduction to Computing	1
		_	CISC 4370	Computer Science & Engineering Ethics Seminar	
FINE ARTS — SEI	LECT ONE	3	MATH 2320	Linear Algebra	
ARTS 1310	Drawing I	3	WRIT 3344	Scientific Writing	
ARTS 1320	Design	3	VVI\II 3344	Scientific Writing	
ARTS 1350	Art Appreciation	3	NETWORK-CE	ENTRIC SPECIALIZATION – SELECT THREE	
ARTS 2360	Ceramics I	3	CISC 4324	Network Security	
COMM 2335		3	CISC 4325	Network Security II: Cryptography	
	Film Appreciation		CISC 4328	Computer Security	
FINA 2330	Exploring the Fine Arts	3	CISC 4310	Artificial Intelligence	
MUSI 1340	Music Appreciation	3	CISC 4335	Big Data	
THEA 2350	Theatre Appreciation	3	CISC 4340	Data Analysis and Visualization	
		_	CISC 4347	Graphics Programming	
	URES – SELECT ONE	<u>3</u>			
ARTS 2354	World Art	3			
EXSS 2353	Lifespan Nutrition	3	Electives	27 H	our
GLBL 2310	Cultural Immersion	3			
HIST 1311	History of World Civilizations to 1500	3	ELECTIVES		2
HIST 1312	History of World Civilizations since 1500	3	You need 27 ac	dditional hours to reach your minimum 120 required	hrs.
HIST 2350	An Introduction to the Politics and Culture of An	cient		,	
	Greece and Rome	3			
HUMA 2355	Foundations of the Humanities	3	Total Hours		
MUSI 2358	World Music	3	Academic Core	ofor B.S.	4
PHIL 2315	Introduction to Philosophy	3		Science Major Required Courses	2
			Required Supp		1
AB SCIENCE		8		ic Specialization	1
	Laboratory Science Courses	8	Electives	ic Specialization	2
				quired for graduation	12
PUBLIC SPEAKIN	NG	3	Total Hours Tee	quired for graduation	
COMM 1320	Public Speaking	3	Additional Grad	duation Requirements	
		_	Minimum Uppe	•	3
MATHEMATICS		4		rs taken at UMHB	3
MATH 1430	Calculus I	4		er Level hours taken at UMHB	2
COCIAL SCIENI	CE – SELECT ONE	•	Minimum cum		2.
		<u>3</u>			
BECO 2311	Principles of Macroeconomics	3			
EDUC 2399	Child and Adolescent Development	3			
PSYC 1301	General Psychology	3			
SOCI 1311	Introduction to Sociology	3			
SOCW 2311	Introduction to Social Work	3			
IS HISTORY O	OR US GOVERNMENT – SELECT ONE	3			
HIST 2311	American History to 1877	3			
HIST 2311	•				
POLS 2305	American History since 1877 United States Government	3 3			
POLS 2305 POLS 2306	Texas State and Local Government	3			
OL3 2300	rexas state and local government	3			
RESEARCH ME	ETHODS OR INTERNSHIP				
	ence – 300 Hrs. of Practical Work				
ractical Experie	ende de maren madisar Werk				
Practical Experie	ΛΙΝΔR	1			
	, m v u v				
RESHMAN SEN	Freshman Seminar	1			
FRESHMAN SEM UMHB 1101	Freshman Seminar	1			
FRESHMAN SEN JMHB 1101 CHAPEL – 1 to 4	Freshman Seminar credits	1			
FRESHMAN SEN JMHB 1101 CHAPEL – 1 to 4	Freshman Seminar				
FRESHMAN SEM UMHB 1101 CHAPEL – 1 to 40 UMHB 1002	Freshman Seminar credits	1			

## Computer Science (B.S.) 2025-2026 Academic Catalog, Bachelor of Science – Computer Science – DEGREE SEQUENCE

FRESHMAN FALL		16 Hours	16 Hours FRESHMAN SPRING		16 Hours	
CISC 1305	Introduction to Computing	3	ENGL 1322	Rhetoric and Composition II	3	
ENGL 1321	Rhetoric & Composition I	3	MATH 1430	Calculus I	4	
CSBS 1311	Engaging the Old Testament	3	CISC 2330	Introduction to Object Oriented Programmi	ing 3	
	Social Science	3	CISC 2315	Discrete Structures of Computer Science	3	
	Elective (MATH 1320 recommended)	3	COMM 1320	Public Speaking	3	
UMHB 1101	Freshman Seminar	1	UMHB 1002	Chapel	0	
UMHB 1002	Chapel	0	UMHB 1005	Fine Arts Experience	0	
UMHB 1005	Fine Arts Experience	0				
SOPHOMORE FALL		16 Hours	SOPHOMORE	SPRING	14 Hours	
MATH 2330	Linear Algebra	3	CISC 3325	Telecommunications and Networks	3	
CSBS 1312	Engaging the New Testament	3	5.55 5525	Lab Science	4	
ENGL	Literature	3		Elective	3	
	Lab Science	4	EXAC	Activity Course	1	
	Elective	3	270 (0	US History or US Government	3	
LIN 4LID 1000	Chapel	0	UMHB 1002	Chapel	0	
UIVIHB IUUZ		Ü	014111111111111111111111111111111111111	criaper	Ü	
UMHB 1002 UMHB 1005	Fine Arts Experience	0	UMHB 1005	Fine Arts Experience	0	
	Fine Arts Experience	0 <b>15 Hours</b>	UMHB 1005  JUNIOR SPRIN	·	0 <b>16 Hours</b>	
UMHB 1005	Fine Arts Experience  Object Oriented Development			·		
UMHB 1005		15 Hours	JUNIOR SPRIN	ig .	16 Hours	
JUNIOR FALL CISC 3321	Object Oriented Development	<b>15 Hours</b> 3	JUNIOR SPRIN	IG  Computer Organization and Architecture	<b>16 Hours</b>	
JUNIOR FALL CISC 3321 CISC 3322	Object Oriented Development Web Development	<b>15 Hours</b> 3 3	JUNIOR SPRIN	Computer Organization and Architecture Algorithms & Data Structures	<b>16 Hours</b> 3 3	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344	Object Oriented Development Web Development Scientific Writing	15 Hours 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323	Computer Organization and Architecture Algorithms & Data Structures Fine Arts	<b>16 Hours</b> 3 3 3	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344	Object Oriented Development Web Development Scientific Writing Operating Systems	15 Hours 3 3 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course	3 3 3 1	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341	Object Oriented Development Web Development Scientific Writing Operating Systems Elective	15 Hours 3 3 3 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective	3 3 3 1 3 3 3	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341	Object Oriented Development Web Development Scientific Writing Operating Systems Elective	15 Hours 3 3 3 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	16 Hours 3 3 3 1 3 3 3	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341 UMHB 1005	Object Oriented Development Web Development Scientific Writing Operating Systems Elective	3 3 3 3 0	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	3 3 3 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341 UMHB 1005	Object Oriented Development Web Development Scientific Writing Operating Systems Elective Fine Arts Experience	15 Hours  3 3 3 3 0	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC UMHB 1005	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	16 Hours 3 3 3 1 3 0	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341 UMHB 1005  SENIOR FALL CISC 4327	Object Oriented Development Web Development Scientific Writing Operating Systems Elective Fine Arts Experience  Database Theory and Application	15 Hours  3 3 3 3 0  15 Hours	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC UMHB 1005  SENIOR SPRIN CISC	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	16 Hours 3 3 3 1 1 3 0 12 Hours	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341 UMHB 1005  SENIOR FALL CISC 4327 CISC 4370	Object Oriented Development Web Development Scientific Writing Operating Systems Elective Fine Arts Experience  Database Theory and Application Computer Science Ethics Seminar	15 Hours  3 3 3 3 0  15 Hours  3 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC UMHB 1005  SENIOR SPRIN CISC	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	16 Hours 3 3 3 1 3 3 0 12 Hours 3 3 3	
JUNIOR FALL CISC 3321 CISC 3322 WRIT 3344 CISC 3341 UMHB 1005  SENIOR FALL CISC 4327 CISC 4370	Object Oriented Development Web Development Scientific Writing Operating Systems Elective Fine Arts Experience  Database Theory and Application Computer Science Ethics Seminar Specialization Elective	15 Hours  3 3 3 3 0  15 Hours 3 3 3 3 3 3	JUNIOR SPRIN CISC 3360 CISC 3323 EXAC UMHB 1005  SENIOR SPRIN CISC	Computer Organization and Architecture Algorithms & Data Structures Fine Arts Activity Course Elective World Cultures Fine Arts Experience	16 Hours 3 3 3 1 3 0 12 Hours 3 3 3 3 3 3 3 3 3	

**Total Credit Hours: 120**