

Critical Technological Studies (B.S.) – Computer Science Track with Embedded Associates of Science

2026-2027 Academic Catalog, Bachelor of Science – Computer Science, Data Analysis and Visualization Specialization,

Academic Core for B.S. 41 Hours

CHRISTIAN STUDIES		6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3

ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3

A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.

EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2
EXAC	Activity Course	1
EXAC	Activity Course	1

FINE ARTS – SELECT ONE		3
ARTS 1350	Art Appreciation	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Introduction to the Theatre	3

WORLD CULTURES – SELECT ONE		3
ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3

LAB SCIENCE		4
	Laboratory Science Course	4

PUBLIC SPEAKING		3
COMM 1320	Public Speaking	3

MATHEMATICS		4
MATH 1430	Calculus I	4

SOCIAL SCIENCE – SELECT ONE		3
BECO 2310	Principles of Economics	3
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 OR US GOVERNMENT – SELECT ONE		3
HIST 2311	American History to 1877	3
HIST 2312	American History since 1877	3
POLS 2305	United States Government	3
POLS 2306	Texas State and Local Government	3

FRESHMAN SEMINAR		1
UMHB 1101	Freshman Seminar	1

CHAPEL – 1 to 4 credits		
UMHB 1002	Chapel	

Fine Arts Experience – 2 to 8 credits		
UMHB 1005	Fine Arts Experience	

ASSOCIATE OF SCIENCE FOUNDATION 20

Laboratory Science Course	4
16 Hours from the following subjects beyond core requirements CISC, ENGR, MATH, PHYS	16

Critical Technological Studies 42 Hours

B.S. COMPUTER SCIENCE TRACK REQUIRED COURSES		21
CISC 1305	Introduction to Computing	3
CISC 2315	Discrete Structures of Computer & Eng. Sciences	3
CISC 2330	Introduction to Object-Oriented Programming	3
CISC 3322	Web Development	3
CISC 3325	Telecommunications & Networks	3
CISC 3341	Operating Systems	3
ENGR 1310	Introduction to Engineering	3

REQUIRED HUMANITIES COURSES		12
COMM 2360	Introduction to Media Writing	3
ENGL 33XX	Literature	3
ENGR 4081	Research in Critical Technological Studies	-
HUMA 2355	Foundations of the Humanities	3
WRIT 3344	Scientific Writing	3

ORAL COMMUNICATION – SELECT ONE		3
COMM 3310	Persuasion	3
COMM 3325	Advanced Public Speaking	3

ADVANCED WRITING SKILLS – SELECT ONE		3
WRIT 3342	Advanced Grammar	3
WRIT 3343	Advanced Composition	3

PRACTICAL MEDIA SKILLS – SELECT ONE		3
COMM 3330	Photojournalism	3
COMM 3368	Broadcasting	3

Electives 17 Hours

UPPER LEVEL ELECTIVES		12
You need 12 additional hours to reach your minimum 36 UL required hrs.		

ELECTIVES		5
You need 5 additional hours to reach your minimum 120 required hrs.		

Total Hours		
Academic Core for B.S.		41
Associates of Science Foundations		20
B.S. Critical Technological Studies Required Courses		42
Upper Level Electives		12
Electives		5
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		24
Minimum cumulative GPA		2.0