Critical Technological Studies (B.S.) – Computer Science Track

2025-2026 Academic Catalog, Bachelor of Science – Critical Technological Studies, Computer Science Track

Academic Core for B.S. — 45 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 1310	Drawing I	3
ARTS 1320	Design	3
ARTS 1350	Art Appreciation	3
ARTS 2360	Ceramics I	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	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
HIST 2350	An Introduction to the Politics and Culture of Ancient Greece and Rome	3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3

LAB SCIENCE — 8

	Laboratory Science Courses	8

PUBLIC SPEAKING — 3

COMM 1320	Public Speaking	3

MATHEMATICS — 4

MATH 1430	Calculus I	4

SOCIAL SCIENCE – SELECT ONE — 3

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

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

RESEARCH METHODS OR INTERNSHIP

ENGR 4090 Practical Experience		-

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	

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 — 9

HUMA 2355	Foundings	3
WRIT 3342	Advanced Grammar	3
WRIT 3344	Scientific Writing	3

VARIED ANALYSIS – SELECT ONE — 3

COMM 2390	Introduction to Film Studies	3
ENGL	Literature	3

ORAL COMMUNICATION – SELECT ONE — 3

COMM 3310	Persuasion	3
COMM 3325	Advanced Public Speaking	3

CULTURAL HUMANITIES – SELECT ONE — 3

HUMA 2350	Origins	3
HUMA 2360	Explorations	3

PRACTICAL MEDIA SKILLS – SELECT ONE — 3

COMM 3343	Documentary Filmmaking	3
COMM 4377	Narrative Film Production	3

Electives — 33 Hours

UPPER LEVEL ELECTIVES — 15

You need 15 additional hours to reach your minimum 36 UL required hrs.

ELECTIVES — 18

You need 18 additional hours to reach your minimum 120 required hrs.

Total Hours

Academic Core for B.S.	45
B.S. Critical Technological Studies Required Courses	42
Upper Level Electives	15
Electives	18
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

Critical Technological Studies (B.S.) – Computer Science

FRESHMAN FALL — 15 Hours

ENGL 1321	Rhetoric & Composition I*	3
CISC 1305	Introduction to Computing	3
MATH 1430	Calculus I	4
COMM 1320	Public Speaking**	3
EXAC	Activity Course	1
UMHB 1101	First Year Seminar	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

FRESHMAN SPRING — 15 Hours

ENGL 1322	Rhetoric & Composition II*	3
CISC 2315	Discrete Structures of Computer & Eng. Sciences	3
CISC 2330	Introduction to Object-Oriented Programming	3
	Social Science	3
	US History or US Government	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE FALL — 16 Hours

ENGL	Literature*	3
CISC 3325	Telecommunications & Networks	3
	Lab Science	4
	World Cultures	3
CSBS 1311	Old Testament	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE SPRING — 14 Hours

	Lab Science	4
HUMA 2355	Foundings	3
CSBS 1312	Engaging the New Testament	3
EXAC	Activity Course	1
	Fine Arts	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL — 15 Hours

ENGR 1310	Introduction to Engineering	3
	ENGL Literature or COMM 2390	3
WRIT 3342	Advanced Grammar	3
	Minor/Elective***	6
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRING — 15 Hours

	HUMA 2350 or HUMA 2360	3
CISC 3322	Web Development	3
WRIT 3344	Scientific Writing	3
	Minor/Electives***	6
UMHB 1005	Fine Arts Experience	0

SENIOR FALL — 15 Hours

CISC 3341	Operating Systems	3
	COMM 3310 or 3325	3
	Minor/Electives***†	9
UMHB 1005	Fine Arts Experience	0

SENIOR SPRING — 15 Hours

ENGR 4090	Practical Experience – to be taken last semester	0
	COMM 3343 or COMM 4377	3
	Minor/Electives***†	12
UMHB 1005	Fine Arts Experience	0

Total Credit Hours: 120

* Prerequisites for upper-level English and WRIT courses.

** Prerequisite for upper-level COMM courses.

*** If no minor declared, fulfill with electives

† If possible, Majors are strongly recommended taking WRIT 4192-4492.

A major in Critical Technological Studies consists of 42 semester hours. Students must maintain a GPA of 2.0 or better for courses in the major