



HOUSTON CHRISTIAN UNIVERSITY DEGREE PLAN
BACHELOR OF SCIENCE (BS) IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
CATALOG YEAR: 2024-2025

NAME: _____ H#: _____ DATE: _____

Candidates for a single major undergraduate baccalaureate degree must complete a total of at least 125 credit hours along with the following requirements:

- No fewer than 30 semester hours of upper-level (3000 or 4000) courses.
- No more than 6 credit hours in Kinesiology activity courses or other student activity hours will count towards the 125-credit hour requirement.
- Complete the Liberal Arts Core Requirements
- Complete a minimum of 30 hours or 25% of the required hours, whichever is greater, of residency at HCU including at least 12 upper-level hours in the major.
- Cumulative GPA of at least 2.00 with no grade below "C" in courses required for the major.
- If completing a MINOR, at least 9 upper-level hours of residency at HCU included in the minor with a grade of "C" or higher in all courses.

Once admitted and enrolled at HCU, each student MUST:

- Receive prior approval for any courses taken at another institution (up to 18 total credit hours only).
- File a degree plan with the Office of Academic Records before 60 credit hours have been completed.
- File an application to graduate at least one (1) semester before anticipated date of graduation.

LIBERAL ARTS CORE REQUIREMENTS: *Course must be completed with a "C" or higher

COURSES	HOURS	COURSES	HOURS
*ENGL 1313 Composition & Literature I	3	*MATH 1451 Calculus I	4
*ENGL 1323 Composition & Literature II	3	CHEM 2315 General Chemistry I CHEM 2115 General Chemistry I Lab	4
ENGL 2315 or 2325 Great Works of Literature I or II	3	GOVT 2313 American & Texas Government	3
PSYC 1313 General Psychology	3	HIST 2311 Western Civilization I	3
PHIL 1313 Introduction to Philosophy	3	Additional History Course (Choose 1): HIST 2312, HIST 2313, HIST 2323	3
CHRI 1301 Introduction to the Bible	3	ART 2343 Art Appreciation or MUSI 1331 Music Appreciation	3
CHRI 2373 Christian Theology & Tradition	3	COMM 1323 Rhetoric & Public Speaking	3
TOTAL HOURS IN LIBERAL ARTS CORE			44

Students transferring to Houston Christian University with 45 or more hours of transferable college credit are only required to take CHRI 3300, Introduction to Bible and Theology, to meet their Liberal Arts Core Curriculum Christianity requirements.

MAJOR REQUIREMENTS: All courses within major must be completed with a "C" or higher

COURSE #	COURSE NAME	HOURS
CHEM 2315/2115	General Chemistry I / General Chemistry I Lab	LACC
CHEM 2316/2116	General Chemistry II / General Chemistry II Lab	4
CHEM 3313	Organic Chemistry I	3
CHEM 3131	Organic Chemistry I Lab	1
CHEM 3333	Organic Chemistry II	3
CHEM 3132	Organic Chemistry II Lab	1
CHEM 4373	Biochemistry	3
CHEM 4374	Biochemistry II	3
MATH 1451	Calculus I	LACC
PHYS 2413	Principles of Physics I	4
PHYS 2423	Principles of Physics II	4
BIOL 3301	Cellular & Molecular Biology	3
BIOL 3101	Cellular & Molecular Biology Lab	1
BIOL 3444	Genetics	4
BCMB 3414	Microbiology	4
BCMB 4424	Molecular Biology	4
BCMB 4111	Bioanalytical Methods	1
BCMB 4272	Integrating Biological Concepts	2
BIOL 2354	General Biology I	3
BIOL 2154	General Biology I Lab	1
BIOL 2355	General Biology II	3
BIOL 2155	General Biology II Lab	1
	BCMB Electives (Choose 7 or 8 hours from the following)	7-8
	BCMB 4324, BCMB 4335, BCMB 4363, BCMB 4375, BCMB 3375, BCMB 4344, BCMB 4448, BCMB 4464, CHEM 3423, CHEM 3443, CHEM 4414, CHEM 4361	
	BCMB Lab Techniques (Choose one of these at 2 hours)	2
	BCMB 4292, BCMB 4294, BCMB 4297, CHEM 4291	
TOTAL HOURS IN MAJOR		62-63
ELECTIVE HOURS REQUIRED		18-19
TOTAL HOURS IN DEGREE		125

OTHER GRADUATION REQUIREMENTS:

- Community Life and Worship (CLW) points: 80 credits required for graduation (at least 50 points must be CLW-A earned through worship events, up to 30 points may be CLW-B earned through community life events).
- FYS 1300 Freshman Year Seminar is required for all students enrolling at HCU with fewer than thirty (30) completed semester hours. College credit earned prior to high school graduation does not count toward the 30-hour requirement. Students enrolled in 100% online degree programs will take a three-hour course, ONLN 1300 Introduction to Online Learning, in place of FYS 1300.

BY SIGNING BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ AND AGREE TO ABIDE BY ALL REQUIREMENTS ON THE DEGREE PLAN. THIS DEGREE PLAN IS NOT VALID UNTIL RECEIVED & PROCESSED BY THE OFFICE OF ACADEMIC RECORDS.

STUDENT SIGNATURE _____ DATE _____

DEAN OF COLLEGE _____ DATE _____

ACADEMIC ADVISOR _____ DATE _____

Office of Academic Records Use Only

Processed by: _____ Date: _____