



**HOUSTON CHRISTIAN UNIVERSITY DEGREE PLAN
BACHELOR OF SCIENCE (BS) IN ELECTRICAL ENGINEERING
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	PHYS 2413/2013 Principles of Physics I with 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.

MATH AND SCIENCE REQUIREMENTS: All courses must be completed with a "C" or higher

COURSE #	COURSE NAME	HOURS
MATH 1451	Calculus I	LACC
MATH 1452	Calculus II	4
MATH 2451	Calculus III	4
MATH 3333	Ordinary Differential Equations	3
MATH 3314	Probability & Statistics	3
COSC 1351	Introduction to Computer Programming	3
COSC 1352	Intermediate Computer Programming	3
PHYS 2413	Principles of Physics I	LACC
PHYS 2423	Principles of Physics II	4
CHEM 2315/2115 or BIOL 2354/2154	General Chemistry I / General Chemistry I Lab or General Biology I / General Biology I Lab	4
	TOTAL MATH AND SCIENCE REQUIREMENTS	28

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

COURSE #	COURSE NAME	HOURS
ENSC 1411	Engineering & Cyber Projects I	4
ENSC 1412	Engineering & Cyber Projects II	4
ENSC 2361	Electrical Engineering & Circuits	3
ENSC 4311	Senior Project I	3
ENSC 4312	Senior Project II	3
ENSC 4315	Internship/Professional Experience	3
ELEN 3325	Electric and Magnetic Fields	3
ELEN 3360	Electrical Circuits II	3
ELEN 3361	Linear Systems	3
ELEN 3363	Electronic Circuits	3
ELEN 3364	Electronic Circuits II	3
ELEN 3342	Digital Signal Processing	3
ELEN 4341	Embedded Systems	3
ELEN 3374	Automatic Control Systems	3
ELEN 2342	Introduction to Digital Design	3
ELEN 4374	OT Networks	3
CYEN 4374	OT Network Security	3
	TOTAL HOURS IN MAJOR	53
	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: _____