



HOUSTON CHRISTIAN UNIVERSITY DEGREE PROGRAM PLAN
BACHELOR OF SCIENCE (BS)
ELECTRICAL ENGINEERING MAJOR

NAME: _____ H# _____ DATE: _____

CATALOG YEAR: **2023/2024**

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 / advanced 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 (certain majors may have their own prescribed Liberal Arts Core Requirements--please see your advisor in your major.)
- Complete a minimum of 30 hours or 25% of the required hours, whichever is greater, of residency at HCU including at least 12 advanced credit 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 w/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 college (once an undergraduate student has enrolled at HCU, no more than 18 semester hours total will be accepted for transfer credit.)
- File a degree plan with the Office of Academic Records before 64 credit hours have been completed.
- File a graduation application at least one (1) semester before anticipated date of graduation.

LIBERAL ARTS CORE REQUIREMENTS:

“**” Indicates course must be completed with a “C” or higher.

COURSES	Hours	COURSES	Hours
*ENGL 1313 Composition and Literature I	3	*MATH 1451 Calculus I	4
*ENGL 1323 Composition and Literature II	3	GOVT 2313 American and Texas Government	3
ENGL 2315 or 2325 Great Works of Literature I or II	3	HIST 2311 Western Civilization I	3
PSYC 1313 General Psychology	3	HISTORY: Choose 1 from HIST 2312, HIST 2313 or HIST 2323	3
PHIL 1313 Introduction to Philosophy	3	ART 2343 Art Appreciation or MUSI 1331 Music Appreciation	3
PHYS 2413 Principles of Physics I	4	COMM 1323 Rhetoric and Public Speaking	3
CHRI 1301 Introduction to the Bible	3		
CHRI 2373 Christian Theology and Tradition	3		
		TOTAL HOURS IN LIBERAL ARTS CORE	44

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

COURSE NO.	COURSE NAME	HOURS
	MATH AND SCIENCE REQUIREMENTS:	
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 (in addition to LACC)	28

MAJOR REQUIREMENTS: All courses within major must be completed with a “C” or higher.

COURSE NO.	COURSE NAME	HOURS
ENSC 1411	Engineering and Cyber Projects I	4
ENSC 1412	Engineering and Cyber Projects II	4
ENSC 2361	Electrical Engineering and 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

Any departmental Exit Exams.

Community Life & Worship (CLW): 80 credits by graduation (Worship Events - at least 50 CLW credits & Community Life Events – no more than 30 CLW credits)

A max of 60 CLW credits can be earned through CLEP, dual credits & transfer credit that is accepted through the HCU Office of Academic Records.

Freshman Year Seminar, FYS 1300, is required for all students entering with less than thirty (30) completed semester hours. College credit earned prior to high school graduation does not count toward the 30-hour credit. 100% online students will take a three -hour course, **ONLN 1300** Introduction to Online Learning, in place of FYS 1300.

APPROVED BY:

ADVISOR _____ DATE _____

DEAN OF COLLEGE _____ DATE _____

I HAVE READ AND AGREE TO ABIDE BY ALL REQUIREMENTS ON THE DEGREE PLAN

STUDENT SIGNATURE _____ DATE _____

THIS DEGREE PLAN IS NOT VALID UNTIL RECEIVED & PROCESSED BY THE OFFICE OF ACADEMIC RECORDS PROCESSED BY _____ DATE _____