

HOUSTON BAPTIST UNIVERSITY DEGREE PROGRAM PLAN
HONORS COLLEGE- BACHELOR OF SCIENCE (BS)
Electrical Engineering Major

CATALOG YEAR OF CORE: 2020/2021

CATALOG YEAR OF MAJORS: _____

NAME: _____ H# _____ DATE: _____

Candidates for a ****single major undergraduate baccalaureate degree** must complete the following requirements:

- **Complete a total of at least 125 credit hours with:**
- No fewer than 30 semester hours of upper / advanced level (3000 or 4000) courses.
- All 40 credit hours of **Honors College Core Requirements**.
- A maximum of 6 credit hours in Kinesiology activity courses or other student activity hours counting toward the 125 credit total.
- If completing a MINOR; at least 9 upper level hours of RESIDENCY at HBU included in the MINOR w/grade of C or better in all courses.
- Complete a minimum of 32 hours or 25% of the required hours, whichever is greater, of residency at HBU 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 or minor.
- **Once admitted to HBU, each student must:**
- Receive prior approval for any courses taken at another college. (Max 18 transfer credit hours after student has matriculated at HBU. Also, NO classes may be taken at a two-year institution once a student has accumulated 64 semester hours of post-secondary credits.)
- File a degree plan with the Registrar's Office before 64 credit hours have been completed.
- File a graduation application at least one (1) semester before your anticipated date of graduation.

Students transferring to Houston Baptist 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.

Honors College Core Requirements

SUBJECT	CIRCLE COURSES COMPLETED	HOURS
ENGL 1313 or HNRS 1313	Composition and Literature I or Honors Composition I	3
ENGL 1323 or HNRS 1323	Composition and Literature II or Honors Composition II	3
HNRS 1310	Walking to Piraeus: The Ancient Greek World	3
HNRS 1030	Honors Lecture I	0
HNRS 1640	All Roads Lead to Rome: The Ancient Roman & Early Christian Worlds	6
HNRS 1060	Honors Lecture II	0
HNRS 2610	Faith, Reason & Romance: The Medieval & Renaissance Worlds	6
HNRS 2030	Honors Lecture III	0
HNRS 2640	Enlightenment & Modernity: 1600-1800	6
HNRS 2060	Honors Lecture IV	0
HNRS 3610	The Last Two Hundred Years: 1800 to Present	6
HNRS 3030	Honors Lecture V	0
HNRS 3130	Honors Science Readings	1
HNRS 3640	The Story of Scripture: The Biblical Narrative from Genesis to Revelation	6
HNRS 3060	Honors Lecture VI	0
MATH 1451	Calculus I	4
PHYS 2413	Principles of Physics I	4
Total Required Honors College Hours		48

COURSE NO.	COURSE NAME	HOURS
MATH AND SCIENCE REQUIREMENTS:		
MATH 1451	Calculus I	Honors College Core
MATH 1452	Calculus II	4
MATH 2323	Linear Algebra	3
MATH 2451	Calculus III	4
MATH 3333	Ordinary Differential Equations	3
PHYS 2413	Principles of Physics I	Honors College Core
PHYS 2423	Principles of Physics II	4
CHEM 2415 or BIOL 2454	General Chemistry I or General Biology I	4
TOTAL MATH AND SCIENCE REQUIREMENTS (In addition to the Honors College Core)		22

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
COSC 1351	Introduction to Computer Programming	3
COSC 1352	Intermediate Computer Programming	3
ELEN 2325	Electrical and Magnetic Fields	3
ELEN 2341	Introduction to Microprocessors & Digital Design	3
ELEN 2362	Electrical Circuits II	3
ELEN 3342	Digital Signal Processing	3
COSC 3342	Computer Networks	3
ELEN 3362	Solid State Electronics	3
ELEN 4341	Embedded Systems	3
ELEN 4372	Communication Systems	3
ELEN 4373	SCADA Systems	3
ELECTIVES	6 hours from CYEN 4332, 4333, 4352, 4371, 4381, 4391	6
Total Hours in Major		59
TOTAL HOURS IN DEGREE		128

OTHER GRADUATION REQUIREMENTS

Any departmental Exit Exams

Community Life & Worship (CLW): 80 credits by graduation (Worship events-at least 50 credits & Community Live Events-no more than 30 credits)
FYS 1300 (freshmen only) – Required for all students entering with less than 32 completed semester hours credit.

APPROVED BY:

FACULTY ADVISOR _____ DATE _____

DEAN OF COLLEGE _____ DATE _____

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

DIRECTOR OF HONORS COLLEGE _____ DATE _____

STUDENT SIGNATURE _____ DATE _____

THIS DEGREE PLAN IS NOT VALID UNTIL RECEIVED & PROCESSED BY THE OFFICE OF THE REGISTRAR

PROCESSED BY _____ DATE _____