

HOUSTON BAPTIST UNIVERSITY DEGREE PROGRAM PLAN ^
BACHELOR OF SCIENCE (BS)
ELECTRICAL ENGINEERING

CATALOG YEAR: 2018/2019

HBU.edu/catalog

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 Baptist University with 45 hours or more of transferable college credit are only required to take CHRI 1314, *Introduction to the Christian Faith*, to meet their Liberal Arts Core Curriculum Christianity requirements.

COURSE NO.	COURSE NAME	HOURS
MATH AND SCIENCE REQUIREMENTS:		
MATH 1434	Precalculus Mathematics	4
MATH 1451	Calculus I	LACC
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	LACC
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 LACC)		26

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 2321	Statics and Mechanics of Materials	3
ENSC 2322	Thermodynamics	3
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 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
ELEN 3361	Linear Systems	3
ELEN 3362	Solid State Electronics	3
ELEN 4341	Embedded Systems	3
ELEN 4371	Instrumentation and Measurement	3
ELEN 4372	Communication Systems	3
ELEN 4373	SCADA Systems	3
ELECTIVES	6 hours from CYEN 4331, 4332, 4333, 4371	6
Total Hours in Major		62
TOTAL HOURS IN DEGREE		132

^ Students may obtain the official degree plan from their academic advisor.