

**HOUSTON BAPTIST UNIVERSITY DEGREE PROGRAM PLAN ^**  
**BACHELOR OF SCIENCE (BS)**  
**COMPUTER SCIENCE**

CATALOG YEAR: 2018/2019

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**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	<b>TOTAL HOURS IN LIBERAL ARTS CORE</b>	<b>44</b>

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
<b>MATH AND SCIENCE REQUIREMENTS:</b>		
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
<b>TOTAL MATH AND SCIENCE REQUIREMENTS (in addition to LACC)</b>		<b>26</b>

**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 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
COSC 2351	Data Structures	3
COSC 2352	Systems Programming	3
COSC 2353	Operating Systems	3
CYEN 3331	Computer Network Security	3
COSC 3341	Computer Architecture	3
COSC 3351	Advanced Data Structures and Algorithms	3
COSC 3352	Theory of Computing	3
COSC 3353	Programming Languages	3
COSC 4351	Computer Networks	3
CYEN 4351	Software Design and Engineering	3
ELEN 2341	Introduction to Microprocessors & Digital Design	3
ELECTIVES	6 hours from CYEN 4331, 4332, 4333, 4335, 4352, 4371, 4381, 4391	6
<b>Total Hours in Major</b>		<b>62</b>
<b>TOTAL HOURS IN DEGREE</b>		<b>132</b>

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