HCC Associate of Science, Mathematics to Houston Christian University BS, Mathematics - Articulation Pathway

4 – Year Suggested Academic Plan for Transfer, Effective 2025 – 2026 Catalog Year

First Year - Freshman

Fall Semester

HCC	HCU	Course Name	Hrs
EDUC 1300	TRAN	General Elective	3
MATH 2413	MATH 1451/1051	Calculus I	4
CHEM 1311/1111	CHEM 2315/2115	General Chemistry I (Lecture and Lab)	4
ENGL 1301	ENGL 1313	English Composition and Literature	3
Total			**14**

Spring Semester

HCC	HCU	Course Name	Hrs
ENGL 1302 or ENGL 2311	ENGL 1323 or ENGL X3XX	English Composition and Literature II or New Technical Writing Course	3
COSC 1436	COSC 1351	Introduction to Computer Programming	4
MATH 2414	MATH 1452/1052	Calculus II	4
CHEM 1412	CHEM 2316/2116	General Chemistry II (Lecture and Lab)	4
HIST 1301, HIST 1302, HIST 2311, or HIST 2312	HIST 2313, HIST 2323, HIST 2311, or HIST 2312	U.S. History I, U.S. History II, Western Civilization I, or Western Civilization II	3
Total			**18**

Second Year - Sophomore

Fall Semester

HCC	HCU	Course Name	Hrs
GOVT 2305	GOVT 2313	American Government	3
MATH 2415	MATH 2451/2051	Calculus III	4
PHYS 2325/2125	PHYS 2413/2013	Principles of Physics I (Lecture and Lab)	4
ARTS 1301 or MUSI 1306	ART 2343 or MUSI 1331	Art Appreciation or Music Appreciation	3
Total			**14**

Spring Semester

HCC	HCU	Course Name	Hrs
MATH 2305	MATH 3311	Introduction to Discrete Mathematics	3
GOVT 2306	TRAN	General Elective	3
PHYS 2326/2126	PHYS 2423/2023	Principles of Physics II (Lecture and Lab)	4
HIST 1301, HIST 1302, HIST 2311, or HIST 2312	HIST 2313, HIST 2323, HIST 2311, or HIST 2312	U.S. History I, U.S. History II, Western Civilization I, or Western Civilization II	3
PSYC 2301	PSYC 1313	Intro to Psychology	3
Total			**16**

Third Year - Junior

Fall Semester

HCU	Course Name	Hrs
MATH 3353 or MATH 4301	Introduction to Abstract Algebra or Real Variables I	3
MATH 3314 or MATH 4303	Probability and Statistics or Introduction to Numerical Analysis	3
COSC 1352	Intermediate Computer Programming	3
Core/Elective Courses	LACC or general elective courses not already taken	9
Total		**18**

Spring Semester

HCU	Course Name	Hrs
Two of: MATH 2323, MATH 3333, or MATH 3371	Linear Algebra, Ordinary Differential Equations, or Introduction to Complex Variables	6
MATH 3383 or MATH 4310	Mathematical Methods for Science and Engineering or Advanced Discrete Mathematics and Combinatorics	3
Core/Elective Courses	LACC or general elective courses not already taken	6
Total		**15**

Fourth Year – Senior

Fall Semester

HCU	Course Name	Hrs
MATH 3353 or MATH 4301	Introduction to Abstract Algebra or Real Variables I	3
MATH 3314 or MATH 4303	Probability and Statistics or Introduction to Real Analysis	3
COSC 4381	Data Analytics	3
Core/Elective Courses	LACC or general elective courses not already taken	6
Total		**15**

Spring Semester

HCU	Course Name	Hrs
MATH 2323, MATH 3333, or MATH 3371	Linear Algebra, Ordinary Differential Equations, or Introduction to Complex Variables	3
Core/Elective Courses	LACC or general elective courses not already taken	12
Total		**15**

Notes/Comments:

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Houston Christian University – Transfer Information

Program Specific Information:

Bachelor of Science in Mathematics

Below is a pathway from the HCC Associate of Science in Mathematics degree to the HCU Bachelor of Science in Mathematics degree that allows students to complete both programs in four years—two at HCC and two at HCU.

Program Admissions Requirements:

Transfer of Credit & Student Benefits:

62 hours taken at HCC during the first two years transfer to HCU

63 hours taken at HCU during the last two years

125 total hours

The student will transfer in more than 45 hours, so FYS 1300 is not required and CHRI 3300 may be taken instead of CHRI 1301 and CHRI 2373.