



**HCC Associate of Science, Electrical Engineering to
Houston Christian University
BS, Cyber Engineering - HCU Proposal**



4 – Year Suggested Academic Plan for Transfer, Effective 2024 – 2025 Catalog Year							
First Year - Freshman							
Fall Semester				Spring Semester			
HCC	HCU	Course Name	Hrs	HCC	HCU	Course Name	Hrs
ENGR 1201	ENGR 1411	Introduction to Engineering	2	ENGR 2304	COSC 1351	Programming for Engineers	3
ENGL 1301	ENGL 1313	Composition & Rhetoric I	3	ENGL 2311		Technical & Business Writing	3
HIST #3##	HIST 2311	American History I or II	3	MATH 2414	MATH 1452	Calculus II	4
MATH 2413	MATH 1451	Calculus I	4	PHYS 2325/ 2125	PHYS 2413	University Physics I	4
CHEM 1311/ 1111	CHEM 2315/ 2115	General Chemistry I	4				
Total			16	Total			14
Summer Session							
Second Year - Sophomore							
Fall Semester				Spring Semester			
HCC	HCU	Course Name	Hrs	HCC	HCU	Course Name	Hrs
GOVT 2305	GOVT 2313	Federal Government	3	ENGR 2305/ 2105	ENSC 2361	Electric Circuits I	4
ECON 2301 or ECON 2302		Principles of Macroeconomics or Principles of Microeconomics	3	MATH 2320	MATH 3333	Differential Equations	3
MATH 2415	MATH 2451	Calculus III	4	XXXX #2##	ENGR 1411	Transferable Elective Credits (1)	2
PHYS 2326/ 2126	PHYS 2423	University Physics II	4	ENGR 2306/ 2106	ELEN 2342	Introduction to Digital Systems	4
				XXXX #3##		Language, Philosophy, & Culture Elective Credits	3
Total			14	Total			16
Summer Session at HCU (not required for completion at HCC; will aid in transfer to HCU)							
		COSE Level Up Program* (COSC 1352, ENSC 1412)	7				
Third Year - Junior							
Fall Semester				Spring Semester			
HCU		Course Name	Hrs	HCU		Course Name	Hrs
COSC 3342		Computer Networks	3	CYEN 3331		Computer Network Security	3
ELEN 4341		Embedded Systems	3	COSC 2353		Operating Systems	3
MATH 3311		Introduction to Discrete Math	3	CYEN 4335		Applied Cryptography	3
ENGL 1302		Composition & Rhetoric II	3	MATH 3111		Advanced Topics	1
COMM 1323		Rhetoric and Public Speaking (if not taken at LSC in summer)	3	MATH 3314		Probability and Statistics	3
PSYC 1313		General Psychology	3	ART 2343 or MUSI 1331		Art Appreciation or Music Appreciation	3
Total			18	Total			16
Summer Session							
Fourth Year – Senior							
Fall Semester				Spring Semester			
HCU		Course Name	Hrs	HCU		Course Name	Hrs
CYEN 4333 or COSC 4381		Reverse Engineering or Data Analytics	3	CYEN 4331		Digital Forensics and Cyber Crime	3
CYEN 4337		Security Operations	3	CYEN 4374		OT Network Security	3
ELEN 4374		OT Networks	3	ENSC 4312		Senior Project II	3
ENSC 4311		Senior Project I	3	CHRI 3300		Introduction to the Bible and Theology	3
ENSC 4315		Internship/Professional Experience	3	PHIL 1313		Introduction to Philosophy	3
ENGL 2315 or 2325		Great Works of Literature I or II	3	HIST 2312, 2313, or 2323		Western Civilization II, US History to 1877, or US History 1877 to Present	3
Total			18	Total			18

Notes/Comments:

1) Complete 3 credit hours from ENGR 1304 - Engineering Graphics I (3).



Houston Christian University – Transfer Information

Program Specific Information:

Bachelor of Science in Cyber Engineering

Program Admissions Requirements:

Transfer of Credit & Student Benefits:

Indirect transfer

ENGR 1201 (2 SCH) + ENGR 1304 (3 SCH) transfer for ENSC 1411 (4 SCH)

ENGR 2304 (3 SCH) transfers for COSC 1351 (3 SCH)

7 hours transfer from 8 hours taken via indirect transfer described above

38 hours transfer directly course-to-course (more if a course for the Language, Philosophy, & Culture Elective Credit is taken at HCC such as ART 1301, MUSI 1306, PHIL 1301, or SPCH 1315)

$7 + 38 = 45$ hours transfer from HCC to HCU (at a minimum)

80 hours required at HCU for a total of 125 hours

7 hours taken during the summer between 2nd and 3rd years as part of the COSE Level Up Program (COSC 1352, ENSC 1412)

70 hours taken over 4 semesters at HCU (at a maximum, less if additional hours transfer or if summer classes are taken at HCC)

3 additional transfer credit hours to make up the difference between CHRI 1301/2373 and CHRI 3300

Any core curriculum class that did not transfer would be suitable here

Notes*: