Transfer Degree Map: HCC Associate of Science in Computer Science to University of Houston-Downtown Bachelor of Science in Computer Science

4 – Year Suggested Academic Plan for Transfer
*Based on UHD Catalog year of 2021-2022 Note: There may be some minor changes in courses due to recently approved course updates.

First Year - Freshman

Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
EDUC 1300 (1)	UHD 1301	Learning Frameworks: 1st Year Exp.	3	ENGL 1302	ENG 1302	Composition II	3
ENGL 1301	ENG 1301	Composition I	3	COSC 1437	CS 2410	Programming Fundamentals II	4
COSC 1436	CS 1410	Programming Fundamentals I	4	MATH 2413	MATH 2401	Calculus I	4
MATH 2412 (2) (3)	Free Elective	Pre-calculus Math	4	American History Elective	Core 060	See catalog/advisor for options	3
American History Elective	Core 060	See catalog/advisor for options	3				
Total			**17**	**Total**			**14**

Second Year – Sophomore
(Jointly Admitted at HCC and UHD 2nd Semester)

Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
COSC 2436	CS 3304	Programming Fundamentals III	4	COSC 2425	CS 2301	Computer Organization	4
MATH 2414	MATH 2402	Calculus II	4	PHYS 2326/2126	PHYS 2402/2102	University Physics II with Lab	4
PHYS 2325/2125	PHYS 2401/2101	University Physics I with Lab	4	GOVT 2306	POLS 2306	Texas Government	3
GOVT 2305	POLS 2305	Federal Government	3	Soc. & Behav. Sci. Elective	Core 080	See catalog/advisor for options	3
Total			**15**	**Total**			**14**

Summer Session							
MATH 2305 (4)	MATH 2305	Discrete Mathematics	3	SPCH 1311 (4)	COMM 1304	Introduction to Speech Communication	3
Total			**3**	**Total**			**3**

Third Year - Junior

Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
	CS 2302	Digital Logic	3		CS 4315	Operating Systems	3
	CS 3306	Introduction to Theory of Computation	3		CS 4318	Database Systems	3
	CS 3321	Software Engineering	3		CS Elective	3000/4000 Level – See catalog/advisor	3
	MATH 2307	Linear Algebra	3		MATH 3302 or STAT 3311	Probability & Statistics or Statistical Analysis for Natural Science	3
Lang., Phil., &	Core 040	See catalog/advisor for options	3		TCOM 3302	Business & Technical Report Writing	3
Total			**15**	**Total**			**15**

Fourth Year - Senior

Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
	CS 4303	Programming Language Concepts	3		CS 4395	Senior Project in Computer Science	3
	CS 4294	Senior Seminar	2		CS Elective	3000/4000 Level – See catalog/advisor	3
	CS Elective	3000/4000 Level – See catalog/advisor	3		CS Elective	3000/4000 Level – See catalog/advisor	3
	CS Elective	3000/4000 Level – See catalog/advisor	3		CS Elective	Any level above CS 1305 – see catalog	3
Creative Arts	Core 050	See catalog/advisor for options	3		Free Electives (3)	(if needed to complete 120 hours total for the degree)	2
Total			**14**	**Total**			**12**

Notes/Comments:
(1) EDUC 1300 is required for First Time in College (FTIC) students only.
(2) Student may be placed in MATH 2413 directly through placement testing OR by completing all MATH prerequisites (MATH 1314, 1316, and 2412). Student should consult with an advisor regarding placement testing.
(3) UHD does not require MATH 2412 for the Bachelor of Science in Computer Science degree plan but the hours can be used to satisfy Free Electives in the degree

9-3-2021

(4) MATH 2305 and SPCH 1311 are not required for completion of the AS degree by HCC but will satisfy requirements at UHD for completion of the Bachelor of Science degree and are necessary for seamless transfer into UHD's Computer Science degree program.

ADDITIONAL NOTES:
- The BS in Computer Science at UHD is a 120 credit hour degree program
- UHD's BS in Computer Science utilizes the C++ programming language as it's foundation – students transferring into the program should be fluent in this language
- Students majoring in Computer Science at UHD must have a grade of C or better in any course in computer science, mathematics, or statistics that is applied towards the degree

Transfer of Credit & Student Benefits

- Credits from HCC that are transferrable to UHD degree programs may be specified in any program-to-program articulation agreement.
- Reverse transfer
- HCC students will be allowed access to academic advising services at UHD
- HCC Honors students admitted to UHD will receive:
  - Acceptance to UHD Honors Program with a minimum GPA (GPA varies by the College in which the program resides)
  - UHD will accept a minimum of 12 hours of transfer Honors credit; eligible for merit and need-based aid commensurate with qualifications

Standard Agreement & P2P Agreement
(Associate of Science in Computer Science to Bachelor of Science in Computer Science)

Program Admission Requirements

- Transfer Admission Criteria (15 or more earned college-level credit hours) 2.0 GPA
- Student must be in Good Academic Standing at last institution attended
- For a course taken more than once, the highest grade will be transferred

Program Specific Requirements

- The Bachelor of Science Degree in Computer Science requires a grade of "C" or higher in all upper-level science courses to be applied to the degree.