

Transfer Degree Map: HCC Associate of Science Computer Science to UH-Downtown Bachelor of Science (Data 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.

			up	dates.			
		Fir	st Yea	r – Freshman			
Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
EDUC 1300	UHD 13XX	Core (090)	3	HIST 1302	HIST 1306	United States History after 1877	3
ENGL 1301	ENGL 1301	Composition I	3	MATH 2413	MATH 2401	Calculus I	4
MATH 2412	Math 1404	Pre-Calculus Math	4	ENGL 1302	ENG 1302	Composition II	3
HIST 1301	HIST 1305	United States History to 1877	3	COSC 1437	CS 2410	Programming Fundamentals II	4
COSC 1436	CS 1410	Programming Fundamentals I	4				
Total			17	Total			14
		Seco	nd Yea	ar – Sophomore			
Fall Semester				Spring Semester			
HCC	UHD	Course Name	Hrs	HCC	UHD	Course Name	Hrs
GOVT 2305	POLS 2305	Federal Government	3	GOVT 2306	POLS 2306	Texas Government	3
PHYS 2325	PHYS 2401	University Physics I	3	PHYS 2326	PHYS 2402	University Physics II	3
PHYS 2125	PHYS 2101	University Physics Laboratory I	1	PHYS 2126	PHYS 2102	University Physics Laboratory II	1
MATH 2414	MATH 2402	Calculus II	4	COSC 2425	CS 2301	Computer Organization	4
COSC 2436	CS 3304	Programming Fundamentals III	4	Elective	Elective	Social & Behavioral Science	3
Total			15	Total			14
		Т	hird Yo	ear – Junior			
		Fall Semester			S	pring Semester	
НСС	UHD	Course Name	Hrs	нсс	UHD	Course Name	Hrs
	CS 1311	Introduction to Computing with Python	3		CS 2311	Python Data Structures	3
	DATA 2401	Data Science I	3		DATA 3401	Data Science II	4
	MATH 2305	Discrete Mathematical Structures	3		MATH 3423	Advanced Linear Algebra and Optimization	4
	MATH 2422	Linear Algebra: Multivariable Calculus w/ Applications	3		STAT 3333	Statistical Inference	3
	MATH 3302	Probability and Statistics	3		PHIL 2305	Introduction to Ethics	3
Total			15	Total			17
		Fo	ourth Y	ear – Senior			
	Fall Semester				Spring Semester		
HCC	UHD	Course Name	Hrs	НСС	UHD	Course Name	Hrs.
	DATA 3402	Data Coll.Transformation & Curation	3		DATA 4319	Statistical and Machine Learning	3
	PHIL 3301	Moral Philosophy I	3		DATA 4395	Senior Project in DS or Equivalent	3
	STAT 4303 or STAT 4311	Decision Mathematics or Operations Research	3		STAT 4310	Applied Regression	3
	CS UL Elective	Domain Focus Course	3		Free Elective	Free Elective	3
					Creative Arts	Select from UHD Creative Arts core curriculum	3
Total			12	Total			15

Notes/Comments (AS in Computer Science to BS in Data Science at UHD):

- (1) EDUC 1300 is required for First Time in College (FTIC) students only. If not FTIC, take PHED 1164.
- (2) Students may be placed in MATH 2413 through placement testing OR by completing all MATH prerequisites (MATH 1314, 1316, and 2412). Student should consult with advisor regarding placement testing.
- (3) Electives may be selected to complete the minimum 120 semester credit hours for completion of the degree at UHD. Student should consult with an advisor. *Based on UHD & HCC Catalog year of 2018-2019 Note: There may be some minor changes in courses due to recently approved course updates.

<u>Articulation Agreement Information – Standard and Program to Program (P2P)</u>

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

Optional Partnership

- <u>Joint Admission</u> provides students the opportunity to maximize utilization of facilities and programs offered jointly by HCC and UHD:
 - Student ID at HCC and UHD
 - Student computer/internet account, access to computer labs and access to libraries at HCC and UHD
 - o Student access to sporting events at UHD
 - o Free electronic transfer transcript transmission/evaluation
 - Application fees will be waived for HCC students who apply to UHD within 6 months of earning an Associate's degree.
- Cooperative Advising allows students to access embedded advisors at both institutions for students who are:
 - o Admitted (either through regular or joint admissions) at UHD
 - All HCC students with an expressed interested in transferring to UHD
 - o Advising for all degree programs at UHD
- Employee discount provides HCC employees an opportunity to apply discounts or waive fees at UHD:
 - o Application fee will be waived for UHD employees
 - Recognize the eligibility of HCC employees to apply for scholarship programs.

Standard Agreement & P2P Agreement

(Associate of Science in Computer Science to Bachelor of Science in Data Science)

Program Specific Requirements

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

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