Transfer Degree Map: LSC Associate of Science, Computer Science Field of Study to University of Houston-Downtown Bachelor of Science in Data Science – Computer Science Domain Focus

4 – Year Suggested Academic Plan for Transfer

First Year - Freshman

	Fall Semester†			Spring Semester			
LSC	**UHD**	**Course Name**	**Hrs**	**LSC**	**UHD**	**Course Name**	**Hrs**
EDUC 1300 (1)	UHD 13XX	Learning Frameworks: 1st Year Exp.	3	ENGL 1302	ENG 1302	Composition & Rhetoric II	3
ENGL 1301	ENG 1301	Composition & Rhetoric I	3	COSC 1337	CS 2410	Programming Fundamentals II	3
COSC 1336	CS 1410	Programming Fundamentals I	3	HIST 1302	HIST 1306	United States History Since 1877	3
HIST 1301	HIST 1305	United States History to 1877	3	PHIL 2306	PHIL 2305	Introduction to Ethics	3
MATH 2412 (2) (3)	MATH 1404	Pre-calculus	4	MATH 2413 (2)	MATH 2401	Calculus I	4
Total			**16**	**Total**			**16**
		Summer Session					
SPCH Elective	COMM XXXX	SPCH 1311, 1315, 1318 or 1321	3	GOVT 2305	POLS 2305	Federal Government	3
Total			**3**	**Total**			**3**

Second Year - Sophomore

Fall Semester				Spring Semester			
LSC	**UHD**	**Course Name**	**Hrs**	**LSC**	**UHD**	**Course Name**	**Hrs**
COSC 2336	CS 3304	Programming Fundamentals III	3	COSC 2325	COSC 2301	Computer Organization	3
MATH 2414	MATH 2403	Calculus II	4	PHYS 2426	PHYS 2402	UHD Physics II	4
PHYS 2425	PHYS 2401/2101	UHD Physics I	4	MATH 2318	MATH 2307	Linear Algebra	3
GOVT 2306 (4)	POLS 2306	Texas Government	3	CHEM 1411 (3)	CHEM 1307/1107	General Chemistry I	4
Total			**14**	**Total**			**14**

Third Year - Junior

Fall Semester				Spring Semester			
	DATA 2401	Data Science I	3		DATA 3401	Data Science II	4
	CS 1311	Introduction to Computation with Python	3		STAT 3333	Statistical Inference	3
	MATH 2305	Discrete Mathematical Structures	3		CS 2311	Python for Data Structures	3
	MATH 2422	Linear Algebra with Multivariable Calculus w/ Applications	4		MATH 3423	Advanced Linear Algebra and Optimization	4
	MATH 3302	Probability and Statistics	3		Creative Arts	Select from UHD Creative Arts core curriculum	3
Total			**16**	**Total**			**17**

Fourth Year – Senior

Fall Semester				Spring Semester			
LSC	**UHD**	**Course Name**	**Hrs**	**LSC**	**UHD**	**Course Name**	**Hrs**
	DATA 3402	Data Coll., Transformation & Curation	3		DATA/CS 4319	Statistical and Machine Learning	3
	STAT 4303 or STAT 4311	Decision Mathematics or Operations Research	3		DATA 4395/Equiv.	Senior Project in DS or Equivalent	3
	PHIL 3301	Moral Philosophy I	3		STAT 4310	Applied Regression	3
	CS UL Elective	Domain Focus Course	3		Social & Bhv. Sci	Select from UHD Social and Behavioral Science core curriculum	3
					Free Electives	Enough to complete a minimum of 120 semester credit hours	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.

(4) GOVT 2306 is not required for completion at LSC but will satisfy requirements at UHD for completion of the Bachelor of Science degree and is necessary for seamless transfer into UHD's Computer Science program.

*Based on UHD & LSC Catalog year of 2018-2019 Note: There may be some minor changes in courses due to recently approved course updates.

Approved 6.28.2018

Articulation Agreement Information – Standard and Program to Program (P2P)

Transfer of Credit & Student Benefits

- Credits from LSC that are transferrable to UHD degree programs may be specified in any program-to-program articulation agreement.
- Reverse transfer
- LSC students will be allowed access to academic advising services at UHD
- LSC 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

- Joint Admission provides students the opportunity to maximize utilization of facilities and programs offered jointly by LSC and UHD:
  - Student ID at LSC and UHD
  - Student computer/internet account, access to computer labs and access to libraries at LSC and UHD
  - Student access to sporting events at UHD
  - Free electronic transfer transcript transmission/evaluation
  - Application fees will be waived for LSC 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:
  - Admitted (either through regular or joint admissions) at UHD
  - All LSC students with an expressed interested in transferring to UHD
  - Advising for all degree programs at UHD
- Employee discount provides LSC employees an opportunity to apply discounts or waive fees at UHD:
  - Application fee will be waived for LSC employees
  - Recognize the eligibility of LSC employees to apply for scholarship programs.

Standard Agreement & P2P Agreement

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

UHD 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

- All degree candidates must have a 2.0 GPA average and a grade of "C" or better in all mathematics and statistics course work.
- The Computer Science domain focus automatically satisfies the requirements for a Computer Science minor at UHD (note that all courses counted towards the minor must have a grade of "C" or better).