# 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 - Based on Catalog Year 2021-2022 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **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.

# 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

## 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).