

Transfer Degree Map: HCC Associate of Science Geology to UH-Downtown Bachelor of Science (Data Science)

4 – Year Suggested Academic Plan for Transfer

| First Year – Freshman | | | | | | | |
|-------------------------|------------------------|--|-----------|------------------------|---------------|--|-----------|
| Fall Semester | | | | Spring Semester | | | |
| HCC | UHD | Course Name | Hrs | HCC | UHD | Course Name | Hrs |
| EDUC 1300 | Elective | Learning Framework | 3 | CHEM 1412 | CHEM 1308 | General Chemistry II | 4 |
| ENGL 1301 | ENGL 1301 | Composition I | 3 | HIST 1302 | HIST 1306 | United States History after 1877 | 3 |
| CHEM 1411 | CHEM 1307 | General Chemistry I | 4 | MATH 2413 | MATH 2401 | Fundamentals of Calculus with Applications | 4 |
| HIST 1301 | HIST 1305 | United States History to 1877 | 3 | ENGL 1302 or ENGL 2311 | ENG 1302 | Composition II | 3 |
| Total | | | 13 | Total | | | 14 |
| Second Year – 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 | Creative Arts | Creative Arts | Creative Arts UHD Course Options | 3 |
| GEOL 1403 | GEOL 1305 | Physical Geology | 4 | Elective | Elective | Language, Philosophy, Culture | 3 |
| | | | | GEOL 1404 | GEOL 1306 | Historical Geology | 4 |
| Total | | | 15 | Total | | | 17 |
| Third Year – Junior | | | | | | | |
| Fall Semester | | | | Spring Semester | | | |
| HCC | UHD | Course Name | Hrs | HCC | 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 | 3 |
| | MATH 2305 | Discrete Mathematics Structures | 3 | | MATH 3423 | Advanced Linear Algebra and Optimization | 4 |
| | MATH 2422 | Linear Algebra: Multivariable Calculus w/ Applications | 3 | | STAT 3333 | Statistical Inference | 4 |
| | MATH 3302 | Probability & Statistics | 3 | | PHIL 2305 | Introduction to Ethics | 3 |
| Total | | | 15 | Total | | | 17 |
| Fourth Year – Senior | | | | | | | |
| Fall Semester | | | | Spring Semester | | | |
| HCC | UHD | Course Name | Hrs | HCC | UHD | Course Name | Hrs |
| | DATA 3402 | Data Collection, 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 | 4 | | STAT 4310 | Applied Regression | 3 |
| | GEOL UL | Domain Focus Elective | 3 | | GEOL UL | Domain Focus Elective | 3 |
| | Domain Focus | Domain Focus Elective | 3 | | | | |
| Total | | | 16 | Total | | | 12 |

Notes/Comments (AS in Geology 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.

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

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

- [Joint Admission](#) 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
 - Student access to sporting events at UHD
 - 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:
 - Admitted (either through regular or joint admissions) at UHD
 - All HCC students with an expressed interest in transferring to UHD
 - Advising for all degree programs at UHD
- Employee discount provides HCC employees an opportunity to apply discounts or waive fees at UHD:
 - 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 Geology to Bachelor of Science in Data 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 Data Science requires a grade of "C" or higher in all upper-level science courses to be applied to the degree.