

Mathematics-Data Science Option - Bachelor of Science College of Natural Sciences & Mathematics

I. Core Requirements (38 hours)*

Course Name	Hours	TCCNS	UH
Communication (6 hours)			
English Composition I	3	ENGL 1301	ENGL 1301
English Composition II	3	ENGL 1302	ENGL 1302
Mathematics (8 hours)			
Calculus I	4	MATH 2413	MATH 2413
Calculus II	4	MATH 2414	MATH 2414
Life & Physical Sciences			
Will be satisfied by choosing six (6) credit hours of the below lecture hours from Eligible Science Courses.			
Creative Arts (3 hours)			
Choose one course from your current college's core approved list.			
Language, Philosophy, & Culture (3 hours)			
Choose one course from your current college's core approved list.			
Social & Behavioral Sciences (3 hours)			
Choose one course from your current college's core approved list.			
American History (6 Hours)			
Choose two courses from your current college's core-approved list.			
Government/Political Sciences (6 hours)			
Federal Government	3	GOVT 2305	GOVT 2305
Texas Government	3	GOVT 2306	GOVT 2306
Writing in the Disciplines (3 hours)			
Choose one course from your current college's core approved Component Area Option list.			

II. Major Requirements (13-15 hours)*

Course Name	Hours	TCCNS	UH
Programming Fundamentals I	3-4	COSC 1336 or 1436	COSC 1336
Programming Fundamentals III [#]	3-4	COSC 2336 or 2436	COSC 2436
Linear Algebra	3	MATH 2318	MATH 2318
Calculus III	4	MATH 2415	MATH 2415

III. College of NSM Natural Sciences Requirements (Choose up to 14 hours)[^]

Course Name	Hours	TCCNS	UH
Biology for Science Majors I	3-4	BIOL 1306/1106 or 1406	BIOL 1306/1106
Biology for Science Majors II	3-4	BIOL 1307/1107 or 1407	BIOL 1307/1107
Anatomy & Physiology I	3	BIOL 2301 or 2401	BIOL 2301
Anatomy & Physiology II	3	BIOL 2302 or 2402	BIOL 2302
Microbiology for Science Majors	3-4	BIOL 2321/2121 or 2421	BIOL 2321/2121
General Chemistry I	3-4	CHEM 1311/1111 or 1411	CHEM 1311/1111
General Chemistry II	3-4	CHEM 1312/1112 or 1412	CHEM 1312/1112
Physical Geology	3-4	GEOL 1303/1103 or 1403	GEOL 1303/1103
Historical Geology	3-4	GEOL 1304/1104 or 1404	GEOL 1304/1104
Oceanography	3-4	GEOL 1345 or 1445	GEOL 1345
Meteorology	3-4	GEOL 1347/1147 or 1447	GEOL 1347/1147
College Physics I	3-4	PHYS 1301/1101 or 1401	PHYS 1301/1101
OR University Physics I ^{**}		OR PHYS 2325/2125 or 2425	OR PHYS 2325/2125
College Physics II	3-4	PHYS 1302/1102 or 1402	PHYS 1302/1102
OR University Physics II ^{**}		OR PHYS 2326/2126 or 2426	OR PHYS 2326/2126

(Continued on Next Page)

COSC 2436 is titled Programming and Data Structures at UH.

^The degree requirement is fourteen (14) hours of approved Life & Physical Sciences, including 2 labs. These courses must be from outside the student's major, and only include those courses approved for NSM majors.

****Credits may not be applied toward a degree for both College and University Physics.**

***Transfer Credit Limit**

A maximum of 66 hours (grades C- or better) of 1000/2000 level transfer hours may be applied toward a UH degree. These are the 66 hours that best meet the degree requirements for your UH degree combination (Major, Double Major, Double Degree, and Minor).

- Students who currently attend UH should refer to their departmental advisor **BEFORE** taking courses at another college.
- Courses listed above are **suggested** courses for this degree. Other courses in combination may apply to a degree.
- See department or course catalog for further information on your degree plan.

Texas Undergraduate In-State Tuition Enrollment Cap

Under current rules, Texas resident undergraduate students who enrolled for the first time in a Texas public institution of higher education in fall 1999 or later may be charged a premium tuition rate after they reach an established enrollment cap. For details, see [Texas Enrollment Cap | Office of the Provost | University of Houston](#)