



Bachelor of Science in Data Science (120 hours)

This table shows a sample recommended course sequence for this degree based on the **UHD 2026-27 Undergraduate Catalog**. Students should verify degree requirements and registration plans with an advisor to ensure accuracy. Please note that some degrees and colleges have specific GPA and other requirements. Courses with asterisks (*) indicate Common Core courses.

First Year (Freshman 0-29 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
ENG 1301*	3		ENGL 1301	Composition I	ENG 1302*	3		ENGL 1302	Composition II
MATH 2421 (Diff & Integral Calculus)	4				POLS 2305*	3		GOVT 2305	Federal Government
Life & Physical Science*	3				MATH 2422 (Linear Algebra & Multivariable Calculus)	4			
UHD 1302* (Freshman Seminar-Math)	3				CS 1411 (Intro to Python)	3			
MATH 2305*	3		MATH 2305	Discrete Math	Life & Physical Science*	3			
Total Hours	16				Total Hours	16			

Second Year (Sophomore 30-59 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
CS 2311 (Data Structures w/ Python)	3				DATA 3401 (Data Science II)	4			
MATH 3302 (Probability & Statistics)	3				Oral Communication Course	3			
DATA 2401 (Data Science I)	4				American History Course*	3			
POLS 2306*	3		GOVT 2306	Texas Government	DATA Science Elective	3			
Total Hours	13				Total Hours	13			

Third Year (Junior 60-89 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
STAT 3333 (Statistical Inference)	3				DATA 3402 (Data Collection/Curation)	4			

DATA 4300 (Ethics in Data Science)	3				MATH 3323 (Numerical Linear Algebra and Optimization)	3			
American History Course*	3				STAT 4310 (Applied Regression)	3			
Domain Focus Course	3				Domain Focus Course	3			
Creative Arts Course	3								
Total Hours	15				Total Hours	14			
Fourth Year (Senior 90-120 hrs)									
Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
DATA 4419 (Statistical & Machine Learning)	4				Domain Focus Course	3			
Social & Behavioral Science*	3				DATA 4320 (Advanced Machine Learning)	3			
STAT 4303 or STAT 4311	3				Free Elective (If needed)	3			
Domain Focus Course	3				Free Elective (If needed)	3			
Free Elective (If needed)	3				Free Elective (If needed)	3			
					Free Elective (If needed)	2			
Total Hours	16				Total Hours	17			