



## Bachelor of Science in Data Science (120 hours)

This table shows a sample recommended course sequence for this degree based on the **UHD 2025-26 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
<b>ENG 1301*</b>	3		ENGL 1301	Composition I	<b>ENG 1302*</b>	3		ENGL 1302	Composition II
<b>MATH 2421</b> (Diff & Integral Calculus)	4				<b>POLS 2305*</b>	3		GOVT 2305	Federal Government
<b>Life &amp; Physical Science*</b>	3				<b>MATH 2422</b> (Linear Algebra & Multivariable Calculus)	4			
<b>UHD 1302*</b> (Freshman Seminar-Math)	3				<b>CS 1411</b> (Intro to Python)	3			
<b>MATH 2305*</b>	3		MATH 2305	Discrete Math	<b>Life &amp; Physical Science*</b>	3			
<b>Total Hours</b>	<b>16</b>				<b>Total Hours</b>	<b>16</b>			

### Second Year (Sophomore 30-59 hrs)

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

### Third Year (Junior 60-89 hrs)

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

<b>DATA 4300</b> (Ethics in Data Science)	3				<b>MATH 3323</b> (Numerical Linear Algebra and Optimization)	3			
<b>American History Course*</b>	3				<b>STAT 4310</b> (Applied Regression)	3			
<b>Domain Focus Course</b>	3				<b>Domain Focus Course</b>	3			
<b>Creative Arts Course</b>	3								
<b>Total Hours</b>	<b>15</b>				<b>Total Hours</b>	<b>14</b>			

**Fourth Year (Senior 90-120 hrs)**

<b>Semester 1</b>	<b>Hours</b>	<b>Grade</b>	<b>TCCNS</b>	<b>ACGM</b>	<b>Semester 2</b>	<b>Hours</b>	<b>Grade</b>	<b>TCCNS</b>	<b>ACGM</b>
<b>DATA 4419</b> (Statistical & Machine Learning)	4				<b>Domain Focus Course</b>	3			
<b>Social &amp; Behavioral Science*</b>	3				<b>DATA 4320</b> (Advanced Machine Learning)	3			
<b>STAT 4303 or STAT 4311</b>	3				<b>Free Elective</b> (If needed)	3			
<b>Domain Focus Course</b>	3				<b>Free Elective</b> (If needed)	3			
<b>Free Elective</b> (If needed)	3				<b>Free Elective</b> (If needed)	3			
					<b>Free Elective</b> (If needed)	2			
<b>Total Hours</b>	<b>16</b>				<b>Total Hours</b>	<b>17</b>			