

## Bachelor of Science in Applied Statistics (120 hours)

This is a recommended course sequence based on the UHD 2024-25 Undergraduate Catalog for a degree in BS in Applied Statistics which will equip students to work in many professions, such as: statisticians, data analysts, data scientists. It will also allow students to work in many different industries, such as: medical, energy, finance, or education. Courses with asterisks (\*) indicate Common Core courses.

First Year								
Semester 1		Hours	Grade		Semester 2		Hours	Grade
ENG 1301* (Composition I) <i>P: A TSIA2 score meeting college readiness in Reading and Writing, or TSIA2 Reading and Writing complete, or TSIA2 Reading and Writing exempt</i>		3			ENG 1302* (Composition II) <i>P: A grade of C or better in ENG 1301 or placement by examination</i>		3	
MATH 2401* (Calculus I) <i>P: A grade of C or better in MATH 1505 or placement by exam taken at UHD; Refer to catalog</i>		4			DATA 2401 (Data Science I) <i>P: C or better in MATH 1505</i>		4	
UHD First-year Seminar* <i>Refer to catalog for approved options</i>		3			MATH 2305 (Discrete Mathematics) <i>*can be substituted for other approved options per catalog P: A grade of C or better in <a href="#">MATH 1505</a>, or placement by exam taken at UH-Downtown</i>		3	
Approved Life and Physical Science course <i>P: Refer to catalog</i>		3			Approved Life and Physical Science course <i>P: Refer to catalog</i>		3	
					POLS 2305* (Federal Government) <a href="#">(Summer Option)</a> <i>P: Enrollment in or completion of ENG 1301 or 010 core complete</i>		3	
Total Hours		13			Total Hours		16	
Second Year								
Semester 1		Hours	Grade		Semester 2		Hours	Grade
Quantitative Science Elective <i>Refer to catalog for approved options</i>		3			STAT 3333 (Statistical Inference) <i>*Can be substituted w/ STAT 3334 or STAT 3311 P: grade of C in MATH 3302</i>		3	
MATH 3302 (Probability & Stats.) <i>*can be substituted with MATH 3317 P: C or better in MATH 2402 or MATH 2421</i>		3			CS 1411 (Introduction to Computer Science w/ Python) <i>*Can be substituted w/ CS 1408 P: Credit or enrollment in MATH 1404 or MATH 1505</i>		4	
POLS 2306* (Texas Government) <a href="#">(Summer Option)</a> <i>P: Enrollment in or completion of ENG 1301 or 010 complete</i>		3			Approved American History course <a href="#">(Summer Option)</a> <i>P: Refer to catalog</i>		3	
Approved Oral Communication Course* <a href="#">(Summer Option)</a> <i>Refer to catalog for approved options</i>		3			Approved Social & Behavioral Sciences Course* <a href="#">(Summer Option)</a> <i>Refer to catalog for approved options</i>		3	
Approved Language, Philosophy, and Culture course* <a href="#">(Summer Option)</a> <i>Refer to catalog for approved options</i>		3			Approved minor course		3	
Total Hours		15			Total Hours		16	

Third Year					
Semester 1			Hours	Grade	
Quantitative Science Elective			3		
<i>Refer to catalog for approved options</i>					
Approved American History course (Summer Option)			3		
<i>P: Refer to catalog</i>					
4000 Level STAT			3		
<i>Refer to catalog for approved options</i>					
Quantitative Science Elective (3000-4000)			3		
<i>Refer to catalog for approved options</i>					
Approved minor course			3		
<b>Total Hours</b>			<b>15</b>		
Semester 2			Hours	Grade	
Quantitative Science Elective (3000-4000)			3		
<i>Refer to catalog for approved options</i>					
Approved Creative Arts course*			3		
(Summer Option)					
<i>Refer to catalog for approved options</i>					
Approved minor course			3		
Approved minor course			3		
4000 Level STAT			3		
<i>Refer to catalog for approved options</i>					
<b>Total Hours</b>			<b>15</b>		
Fourth Year					
Semester 1			Hours	Grade	
STAT 4395 (Senior Project)			3		
<i>*can be substituted with TCOM 3302</i>					
Quantitative Science Elective (3000-4000)			3		
<i>Refer to catalog for approved options</i>					
Approved minor course			3		
Free Elective (if needed)			3		
Free Elective (if needed)			3		
<b>Total Hours</b>			<b>15</b>		
Semester 2			Hours	Grade	
4000 Level STAT			3		
<i>Refer to catalog for approved options</i>					
Approved minor course			3		
Quantitative Science Elective (3000-4000)			3		
<i>Refer to catalog for approved options</i>					
Free Elective (if needed)			3		
Free Elective (if needed)			3		
<b>Total Hours</b>			<b>15</b>		

## 15 to Finish

Fall: 15 hours • Spring: 15 hours

## 30 in 3

Fall: 12 hours • Spring: 12 hours • Summer: 6 hours