

# 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 MATH 1505, 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) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 core complete</i>		3	
<b>Total Hours</b>		<b>13</b>		<b>Total Hours</b>		<b>16</b>	
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) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 complete</i>		3		Approved American History course (Summer Option) <i>P: Refer to catalog</i>		3	
Approved Oral Communication Course* (Summer Option) <i>Refer to catalog for approved options</i>		3		Approved Social & Behavioral Sciences Course* (Summer Option) <i>Refer to catalog for approved options</i>		3	
Approved Language, Philosophy, and Culture course* (Summer Option) <i>Refer to catalog for approved options</i>		3		Approved minor course		3	
<b>Total Hours</b>		<b>15</b>		<b>Total Hours</b>		<b>16</b>	

### Third Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
Quantitative Science Elective <i>Refer to catalog for approved options</i>	3		Quantitative Science Elective (3000-4000) <i>Refer to catalog for approved options</i>	3	
Approved American History course (Summer Option) <i>P: Refer to catalog</i>	3		Approved Creative Arts course* (Summer Option) <i>Refer to catalog for approved options</i>	3	
4000 Level STAT <i>Refer to catalog for approved options</i>	3		Approved minor course	3	
Quantitative Science Elective (3000-4000) <i>Refer to catalog for approved options</i>	3		Approved minor course	3	
Approved minor course	3		4000 Level STAT <i>Refer to catalog for approved options</i>	3	
<b>Total Hours</b>	<b>15</b>		<b>Total Hours</b>	<b>15</b>	

### Fourth Year

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