Bachelor of Science in Data Science (120 hours)

This is a recommended course sequence based on the UHD 2023-24 Undergraduate Catalog for a degree in BS in Data Science which equips students to work as professional data scientist. Courses with asterisks (*) indicate Common Core courses.

First Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
ENG 1301*	3		ENG 1302*	3	
MATH 2421*	4		MATH 2422 (Linear Algebra & Multivariable Calculus)	4	
Life and Physical Science*	3		CS 1311 (Intro. To Python)	3	
UHD First-year Seminar*	3		Life & Physical Science*	3	
MATH 2305	3		POLS 2305* (Summer Option)	3	
Total Hours	**16**		**Total Hours**	**16**	

Second Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
CS 2311 (Data Structures w/ Python)	3		DATA 3401	4	
MATH 3302 (Probability & Statistics)	3		Oral Communication course* (Summer Option)	3	
DATA 2401 (Data Science I)	4		American History course*	3	
POLS 2306* (Summer Option)	3		PHIL 2305*	3	
Total Hours	**13**		**Total Hours**	**13**	

Third Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
STAT 3333 (Statistical Inference)	3		DATA 3402 (Data collection/Curation)	4	
DATA 4300 (Ethics in Data Science)	3		MATH 3423 (Advanced Linear & Opt)	4	
American History course*	3		STAT 4310 (Applied Regression)	3	
Domain Focus Course	3		Domain Focus Course	3	
Creative Arts Course* (Summer Option)	3				
Total Hours	**15**		**Total Hours**	**14**	

Fourth Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
DATA 4319 (Statistical & Machine Learning)	3		STAT 4303 or STAT 4311	3	
Social and Behavioral Sciences* (Summer Option)	3		DATA Science Elective	3	
Domain Focus Course	3		Free Elective (if needed)	3	
Domain Focus Course	3		Free Elective (if needed)	3	
Free Elective (if needed)	3		Free Elective (if needed) (Summer Option)	3	
Free Elective (if needed)	3				
Total Hours	**18**		**Total Hours**	**15**	