

Data Science (B.S.)

Major Requirements Open only to students graduating May 2024 or later. All classes must be completed with a C- grade or better. Each course may count only once toward the major. No more than 4 credits of internship may count towards the major. Students majoring in Data Science are not eligible to minor in Data Science or Statistics.							
Term Completed/Planned	Grade	Credit	Course #	Title			
Complete one (1) introductory	/ statistics						
		4	DST164	Introduction to Statistics (with R) (NSM)			
		4	MAT163	Introductory Statistics (NSM) – offered infrequently			
		4	MIS379	Quantitative Methods for Business and Economics			
		4	PSY215	Research Methods and Statistics I			
		4	SOC362	Statistical Analysis			
Complete all of the following							
-		4	DST234	Introduction to Data Science (and R) (NSM)			
		4	DST334	Statistical Modeling – formerly MAT273			
		4	CSC165 and 165L	Introduction to Computer Programming (Python)			
		4	MAT145 and 145L	Calculus I (NSM)			
		4	MAT315	Linear Algebra – formerly MAT246			
		4	DST490	Data Visualization for Social Justice (KC)			
Complete one (1) databases (9	SQL) course						
		4	MIS270	Data Management for Business			
		4	CSC311	Web Applications and Databases			
Complete one (1) machine lea	rning course						
	Ü	4	DST314	Programming for Data Science			
		4	DST475	Machine Learning (KC)			
Complete one (1) additional p	rogramming	course					
		4	CSC170 and 170L	Introduction to Object-Oriented Programming (Java)			
		4	CSC311	Web Applications and Databases			
		4	DST314	Programming for Data Science			
		4	URB295	Topics: Geographic Information Systems (this topic only)			
				om AIS105, AIS205, ANT141, CCS100, CRS101, HIS122, HIS225, HIS316, approved introduction to social justice elective:			

Advanced Elective Option 1: Both MAT302 and MAT350

Complete two (2) advanced electives through one of the following four options:

_____4 MAT302 Discrete Mathematical Structures – formerly MAT271 MAT350 Graph Theory – *formerly MAT304* Advanced Elective Option 2: Both CSC341 and CSC351 CSC341 Data Structures – formerly CSC210 CSC351 Algorithms – formerly CSC320 Advanced Elective Option 3: Both MAT373 and DST374 MAT373 Probability Theory DST374

Mathematical Statistics



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Student's Signature			Da	ate				
Students completing a major in Data	Science	e are not en	gible for a minor in Data Science or Statistics.					
At most 4 credits of internship may of								
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Each course may count only once towards the major.								
	4 Other approved speaking:							
	2	MAT201	Communicating Mathematics					
	4	COM115	Scientific and Technical Public Speaking					
Complete one (1) Speaking skill course	4	COM111	Public Speaking					
	4	MAT465	Modeling and Differential Equations in Biological and Natural	Sciences				
	4	DST475	Machine Learning					
	4	DST399	Internship (or 4 credits of DST 396, 397, 398)					
	4	DST395	Topics in Data Science					
	4	DST394	Topics in Statistics					
	4	DST314	Programming for Data Science					
	4	CSC311	Web Applications and Databases					

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.