

Data Science

UHSP #	UHSP Course Title	Hours	McKendree	Hours	McK Data Analytics Requirements	McKendree Graduation Requirements
DATA-1100	Introduction to Data Literacy and Analytics (Excel & Tableau)	3	CSI-120	3		Minimum 120 hours to graduate
PROG-1101	Programming Fundamentals I (Python)	3	CSI-131	3	Computational Thinking	30 hours 300/400 level courses
MATH-1110	Applied Calculus for Health Sciences	3	MTH-210	3	Calculus I	30 hours at McKendree
WRIT-1101	The Effective Writer	3	ENG-111	3		30 hours of general education core required courses
	Social and Behavioral Sciences General Education	3	COR-SSC	3		2 writing intensive courses
	Foundations of Learning	1	UNI-101	1		A maximum of 90 hours are accepted in transfer credit
PROG-1102	Programming Fundamentals II (Python)	3	CSI-132	3	Introduction to Programming	
MATH-1120	Biostatistics	3	MTH-341	4	Applied Statistics	
WRIT-1102	Writer as Advocate	3	ENG-112	3		
COMM-1100	Public Speaking	3	COM-100	3		
	Elective	3	GNL-ELEC	3		
DATA-2201	Data Analytics (SAS)	3	MTH-ELEC	3		
MATH-2200	Probability and Advanced Statistics	3	MTH-340	3	Probability	
	Natural Sciences General Education	3	COR-SCI	3		
	Humanities and Fine Arts General Education	3	GEN-ED	3		
HCAM-2101	Leadership and Professional Development	3	LDR-101	3		
DATA-2202	Foundations of Artificial Intelligence (R)	3	CSI-112	3	Artificial Intelligence Literacy	
	Natural Sciences General Education	3	COR-SCI	3		
	Humanities and Fine Arts General Education	3	GEN-ED	3		
	Social and Behavioral Sciences General Education	3	COR-SSC	3		
	Elective	3	GNL-ELEC	3		
DATA-3310	Machine Learning Methods for Data Science (Python/R)	3	CSI-141	3	Python Programming	
	Humanities and Fine Arts General Education	3	GEN-ED	3		
	Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
DATA-3311	Applied Data Science (Python/R/SAS)	3	CSI-341	3	Applied Machine Intelligence	
	300- or 400-Level Writing Intensive Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
DATA-4401	Industry-Based Learning in Data Science	3	CSI-ELEC	3		
	300- or 400-Level Writing Intensive Elective	3	GNL-ELEC	3		
	300- or 400-Level Elective	3	GNL-ELEC	3		
	300- or 400-Level Elective	3	GNL-ELEC	3		
	300- or 400-Level Elective	3	GNL-ELEC	3		
DATA-4402	Data Science Capstone Project	3	MTH-485	3	Data Analytics Capstone	
	300- or 400-Level Elective	3	GNL-ELEC	3		
	300- or 400-Level Elective	3	GNL-ELEC	3		
	300- or 400-Level Elective	3	GNL-ELEC	3		
	Elective	3	GNL-ELEC	3		
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	McK major required courses should be used in place of electives when possible.		McK Major Req.			
			MTH 211	4	Calculus II	
			MTH-344	3	Statistical Learning	
			MTH 360	3	Linear Algebra	
			CSI-230	5	Introduction to Computing	
			CSI-330	3	Data Structures and Algorithms	
			ENG-360	3	Interdisciplinary Professional and Technical Writing	
			BA- SOCSOCI Track			
			PSY-153	3		
			PSY-301	3	Psychological Statistics	
			PSY-396	3	Research Methods	
			SOC-150	3	Introduction to Sociology	
			SOC-300	3	Social Research Methods	
			SOC-400	3	Sociological Theory	
			BS-BUS Track			
			BUS-324	3	Business Ethics and Social Responsibility	
			ECO-211	3	Principles of Microeconomics	
			ECO-212	3	Principles of Macroeconomics	
			ACC-205	3	Principles of Financial Accounting	
			FIN-308	3	Principles of Business Finance	
			MGT-204	3	Principles of Management	
			MKT-205	3	Principles of Marketing	