

Academic Program Sequence Map

Program Degree Type and Name: MS Computer Science, Specialization in Data Science
Program Level: Graduate Academic Term Type: Semester

Catalog Year: 2026-2027

Year and Term: Year 1 Fall term		Credits Per Classification							Year and Term: Year 1 Spring Term				Credits Per Classification							
Course Number & Title		CR	GE	Maj	OE	SM	Co / Prerequisite(s)		Milestone/Advice		Course Number & Title		CR	GE	Maj	OE	SM	Co / Prerequisite(s)		
CISC 505- Object-Oriented Programming and Analysis of Algorithms		3		x			None				CISC 530- Mathematical Methods for Data Analysis		3		x					
CISC 510- Theoretical Concepts in Computer Science		3		x			None				CISC 540- Computational Data Analysis		3		x					
CISC 520- Database Management Systems		3		x			None		GC		CISC 550- Machine Learning		3		x					
Term Credit Total:		9		9							Term Credit Total:		9		9					
Year and Term: Year 2 Fall		Credits Per Classification							Year and Term: Year 2 Spring				Credits Per Classification							
Course Number & Title		CR	GE	Maj	OE	SM	Co / Prerequisite(s)		Milestone/Advice		Course Number & Title		CR	GE	Maj	OE	SM			
CISC 560- Big Data		3		x							CISC 600- Thesis OR CISC 602- Data Science Project		3		x			Approval of Program Director		
Elective		3		x																
Elective		3		x																
Term Credit Total:		9		9							Term Credit Total:		3		3					
Program Totals		Credits: 30			General Education: N/A (Graduate)					Major & Major Elective: 30				Open Elective: N/A						
Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequisites for noted course GC: Gateway Course CA: Career Activity ELC: Experiential Learning Course WBE: Work-based Experience																				

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Milestone/Advice

Co / Prerequisite(s)
ELC

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