

Academic Program Sequence Map

Program Degree Type and Name: MS Computer Science, Specialization in Data Science

Catalog Year: 2024-2025

Program Level: Graduate

Academic Term Type: Semester

Year and Term: Year 1 Fall term								Year and Term: Year 1 Spring Term							
Credits Per Classification								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 540- Computational Data Analysis	3		x				
CISC 510- Theoretical Concepts in Computer Science	3		x			None		CISC 550- Machine Learning	3		x				
CISC 520- Database Management Systems	3		x			None	GC	Elective	3		x				
CISC 530- Mathematical Methods for Data Analysis	3		x			None		Elective	3		x				
Term Credit Total:								Term Credit Total:							
12								12							
Year and Term: Year 2 Fall								Year and Term: Year 2 Spring							
Credits Per Classification								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 560- Big Data	3		x												
CISC 600- Thesis OR CISC 602- Data Science Project	3		x			Approval of Program Director	ELC								
Term Credit Total:								Term Credit Total:							
6								6							
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

Office of the Provost August 2

Milestone/Advice
Co / Prerequisite(s)