

## Academic Program Sequence Map

**Program Degree Type and Name:** MS Computer Science, Specialization in Data Science **Catalog Year:** 2025-2026

**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			
<b>Term Credit Total:</b>	12		12					<b>Term Credit Total:</b>	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							
<b>Term Credit Total:</b>	6		6					<b>Term Credit Total:</b>						
<b>Program Totals</b>		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

Mercy University

### Academic Program Sequence Map

Milestone/Advice
Co / Prerequisite(s)

