MERCY UNIVERSITY

Academic Program Sequence Map

Program Degree Type and Name: **MS Computer Science, Specialization in Data Science**   **Catalog Year: 2021-2022**

Program Level: Graduate   **Academic Term Type:** Semester

Year and Term: Year 1 Fall term | Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
CISC 505- Object-Oriented Programming and Analysis of Algorithms	3		x			None
CISC 510- Theoretical Concepts in Computer Science	3		x			None
CISC 520- Database Mangement Systems	3		x			None
CISC 530- Mathematical Methods for Data Analysis	3		x			None
Term Credit Total:	12		12			

Year and Term: Year 1 Spring Term | Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
CISC 540- Computational Data Analysis	3		x			CISC 530
CISC 550- Machine Learning	3		x			CISC 530
Elective	3		x			
Elective	3		x			
Term Credit Total:	12		12			

Year and Term: Year 2 Fall | Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
CISC 560- Big Data	3		x			CISC 540
CISC 600- Thesis **OR** CISC 602- Data Science Project	3		x			Approval of Program Head
Term Credit Total:	6		6			

Year and Term: Year 2 Spring | Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Term Credit Total:						

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/ prerequites for noted course