| Mercy Univ | ersity |
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Academic Program Sequence Map

| Program Degree Type and Name: MS Co | mputer Science, Specialization in Data Science |
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Program Level: Graduate

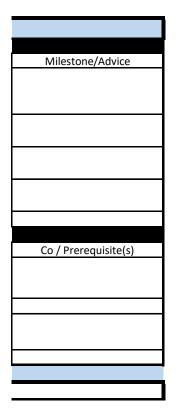
Academic Term Type: Semester

Catalog Year: <u>2024-2025</u>

| Year and Term: Year 1 Fall term | | | | | Credits Per C | assification | | Year and Term: Year 1 Spring Term | | | | | | Credits Per Classification |
|---|------|---|----|------|---------------|------------------------------|--|---------------------------------------|-------|------|------|------|----|-----------------------------------|
| Course Number & Title | CR | GE | Ma | j Ol | E SM | Co / Prerequisite(s) | Milestone/Advice | Course Number & Title | CF | ≀ GE | Ma | j 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 | | х | | | None | | Elective | 3 | | x | | | |
| Term Credit Total: | 12 | | 12 | | | | | Term Credit Tota | l: 12 | 2 | 12 | | | |
| Year and Term: Year 2 Fall | | | | | Credits Per C | assification | | Year and Term: Year 2 Spring | | | | | | Credits Per Classification |
| Course Number & Title | CR | GE | Ma | j Ol | E SM | Co / Prerequisite(s) | Milestone/Advice | Course Number & Title | CF | ≀ GE | E Ma | j OE | SM | |
| CISC 560- Big Data | 3 | | x | | | | | | | | | | | |
| CISC 600- Thesis | | | | | | | | | | | | | | |
| OR | 3 | | x | | | Approval of Program Director | | | | | | | | |
| CISC 602- Data Science Project | | | | | | | ELC | | | | | | | |
| Term Credit Total | 6 | | 6 | | | | | Term Credit Tota | l: | | | | | |
| | | | | | | | | | | | | | | |
| Program Totals | Cred | Credits: 30 General Education: N/A (Graduate) | | | | Major & Major Elective: 30 | or & 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 GC: Gateway Course CA: Career Activity ELC: Experiential Learning Course

Office of the Provost August 2



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