Mercy University

# Academic Program Sequence Map

**Program Degree Type and Name:** <u>**MS Computer Science, Specialization in Artificial Intelligence and Machine Learning**</u>  **Catalog Year: 2025-2026**

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

| Year and Term: Year 1 Fall term | | | | | Credits Per Classification | | | Year and Term: Year 1 Spring Term | | | | | Credits Per Classification | |
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| 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 520- Database Management Systems | 3 | | x | | | | GC | CISC 550- Machine Learning | 3 | | x | | | |
| CISC 530- Mathematical Methods for Data Analysis | 3 | | x | | | | | CISC 560- Big Data | 3 | | x | | | |
| CISC 540- Computational Data Analysis | 3 | | x | | | | | CISC 602- Data Science Project | 3 | | x | | | Approval of Program Director |
| | | | | | | | | | | | | | | |
| **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 | Co / Prerequisite(s) |
| CISC 580- Computer Vision | 3 | | x | | | | | CISC 610- DevOps and MLOps | 3 | | x | | | |
| CISC 585- Natural Language Processing | 3 | | x | | | | | CISC 620- Data Engineering Services in the Cloud | 3 | | x | | | |
| CISC 702- CS Capstone II | 3 | | x | | | Approval of Program Director | ELC | CISC 703- CS Capstone III | 3 | | x | | | Approval of Program Director |
| **Term Credit Total:** | 9 | | 9 | | | | | **Term Credit Total:** | 9 | | 9 | | | |

| Program Totals | Credits: 36 | General Education: N/A (Graduate) | Major & Major Elective: 36 | 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  **GA**: Gateway Course  **CA**: Career Activity  **ELC**: Experiential Learning Course

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**Academic Program Sequence Map**

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| Milestone/Advice |
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| Milestone/Advice |
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