

Academic Program Sequence Map

Program Degree Type and Name: MS Computer Science, Specialization in Artificial Intelligence and Machine Learning  
Program Level: Graduate Academic Term Type: Semester

Catalog Year: 2026-2027

| Year and Term: Year 1 Fall term                  |    | Credits Per Classification |     |    |                                   |                              |                  |  |  |  |
|--------------------------------------------------|----|----------------------------|-----|----|-----------------------------------|------------------------------|------------------|--|--|--|
| Course Number & Title                            | CR | GE                         | Maj | OE | SM                                | Co / Prerequisite(s)         | Milestone/Advice |  |  |  |
| CISC 520- Database Management Systems            | 3  |                            | x   |    |                                   |                              | GC               |  |  |  |
| CISC 530- Mathematical Methods for Data Analysis | 3  |                            | x   |    |                                   |                              |                  |  |  |  |
| CISC 540- Computational Data Analysis            | 3  |                            | x   |    |                                   |                              |                  |  |  |  |
|                                                  |    |                            |     |    |                                   |                              |                  |  |  |  |
| Term Credit Total:                               | 9  |                            | 9   |    |                                   |                              |                  |  |  |  |
| Year and Term: Year 2 Fall                       |    | Credits Per Classification |     |    |                                   |                              |                  |  |  |  |
| Course Number & Title                            | CR | GE                         | Maj | OE | SM                                | Co / Prerequisite(s)         | Milestone/Advice |  |  |  |
| CISC 580- Computer Vision                        | 3  |                            | x   |    |                                   |                              |                  |  |  |  |
| CISC 585- Natural Language Processing            | 3  |                            | x   |    |                                   |                              |                  |  |  |  |
| CISC 702- CS Capstone II                         | 3  |                            | x   |    |                                   | Approval of Program Director | ELC              |  |  |  |
| Term Credit Total:                               | 9  |                            | 9   |    |                                   |                              |                  |  |  |  |
|                                                  |    |                            |     |    |                                   |                              |                  |  |  |  |
| Program Totals                                   |    | Credits: 36                |     |    | General Education: N/A (Graduate) |                              |                  |  |  |  |

| Year and Term: Year 1 Spring Term                |    | Credits Per Classification |     |    |    |                      |                              |     |  |  |
|--------------------------------------------------|----|----------------------------|-----|----|----|----------------------|------------------------------|-----|--|--|
| Course Number & Title                            | CR | GE                         | Maj | OE | SM | Co / Prerequisite(s) | Milestone/Advice             |     |  |  |
| CISC 550- Machine Learning                       | 3  |                            | x   |    |    |                      |                              |     |  |  |
| CISC 560- Big Data                               | 3  |                            | x   |    |    |                      |                              |     |  |  |
| CISC 602- Data Science Project                   | 3  |                            | x   |    |    |                      | Approval of Program Director | ELC |  |  |
|                                                  |    |                            |     |    |    |                      |                              |     |  |  |
| Term Credit Total:                               | 9  |                            | 9   |    |    |                      |                              |     |  |  |
| Year and Term: Year 2 Spring                     |    | Credits Per Classification |     |    |    |                      |                              |     |  |  |
| Course Number & Title                            | CR | GE                         | Maj | OE | SM | Co / Prerequisite(s) | Milestone/Advice             |     |  |  |
| CISC 610- DevOps and MLOps                       | 3  |                            | x   |    |    |                      |                              |     |  |  |
| CISC 620- Data Engineering Services in the Cloud | 3  |                            | x   |    |    |                      |                              |     |  |  |
| CISC 703- CS Capstone III                        | 3  |                            | x   |    |    |                      | Approval of Program Director | ELC |  |  |
| Term Credit Total:                               | 9  |                            | 9   |    |    |                      |                              |     |  |  |
|                                                  |    |                            |     |    |    |                      |                              |     |  |  |
| 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/ prerequisites for noted course GC: Gateway Course CA: Career Activity ELC: Experiential Learning Course WBE: Work-based Experience