

# Master of Science – Artificial Intelligence

## 2025-2026

REQUIREMENTS	AI TRACKS
<p style="text-align: center;"><b><u>Admission Requirements</u></b></p> <p>Candidates must satisfy all of the following:</p> <ol style="list-style-type: none"> <li>1. <b>Grade point average of 3.0 (B)</b> from all undergraduate coursework.</li> <li>2. <b>Resume</b> detailing work experiences and accomplishments.</li> <li>3. <b>Personal statement</b> of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives.</li> <li>4. <b>Recommendations:</b> Two professional or academic recommendations received online, addressing the candidate's potential for graduate study completion. You will provide the emails of two references, and they will be sent a link to fill out their online recommendation.</li> <li>5. Candidates must possess knowledge of a <b>programming</b> language equivalent to 2 or 3 undergraduate courses.</li> <li>6. Candidates must possess a knowledge of <b>applied statistics</b>.</li> </ol> <p style="text-align: center;"><b><u>Degree Requirements</u></b></p> <p>The Artificial Intelligence (M.S.) program requires a minimum of 33 credits.</p> <p style="text-align: center;"><b>Core Courses (12 credits)</b></p> <p>Required:</p> <ul style="list-style-type: none"> <li>• AI 501 Introduction to Artificial Intelligence</li> <li>• CIS 635 Data Mining</li> </ul> <p>Choose 2 of the following courses:</p> <ul style="list-style-type: none"> <li>• AI 502 Introduction to Generative AI</li> <li>• AI 511 AI Ethics and Bias</li> <li>• AI 545 Machine Learning Operations</li> <li>• CIS 678 Machine Learning</li> <li>• SE 511 Introduction to Software Engineering</li> </ul> <p style="text-align: center;"><b>Electives Requirements (3-6 credits)</b></p> <p>Any 500 or 600 level CIS course can be used as an elective. Students will require 3 additional elective credits if the project option of the capstone is chosen.</p> <p style="text-align: center;"><b>Capstone Requirements (3 or 6 credits)</b></p> <p>Each candidate must complete either the project course or the thesis sequence. Please contact the graduate program director one semester prior to starting any of these.</p> <p>Project course:</p> <ul style="list-style-type: none"> <li>• CIS 693 Master's Project</li> </ul> <p>Thesis sequence:</p> <ul style="list-style-type: none"> <li>• CIS 690 Thesis Research Preparation</li> <li>• CIS 695 Master's Thesis</li> </ul>	<p>All candidates are required to complete one of the following tracks for a total of 12 credits.</p> <p><b>Artificial Intelligence Systems</b></p> <p>Required:</p> <ul style="list-style-type: none"> <li>• AI 545 Machine Learning Operations</li> <li>• SE 513 Software Testing</li> </ul> <p>Choose 2 of the following:</p> <ul style="list-style-type: none"> <li>• AI 502 Introduction to Generative AI</li> <li>• AI 521 Applied Computer Vision</li> <li>• AI 531 Natural Language Processing</li> <li>• AI 541 Edge AI</li> <li>• AI 551 Reinforcement Learning</li> <li>• CIS 641 Systems Analysis and Design</li> <li>• SE 512 Requirements Specification</li> <li>• SE 530 Software Construction and Delivery</li> <li>• SE 536 Data Analytics in Software Engineering</li> <li>• SE 537 Software Quality Assurance</li> </ul> <p><b>Cybersecurity and Artificial Intelligence</b></p> <p>Choose 4 of the following:</p> <ul style="list-style-type: none"> <li>• AI 511 AI Ethics and Bias</li> <li>• CIS 518 Secure Software Engineering</li> <li>• CIS 616 Data Privacy and Security</li> <li>• CIS 619 Data Analytics for Cybersecurity</li> <li>• CYB 520 Trustworthy AI</li> </ul> <p><b>Edge and Cloud Artificial Intelligence</b></p> <p>Required:</p> <ul style="list-style-type: none"> <li>• AI 541 Edge AI</li> </ul> <p>Choose 3 of the following:</p> <ul style="list-style-type: none"> <li>• AI 521 Applied Computer Vision</li> <li>• CIS 654 Computer Networking</li> <li>• CIS 655 Cloud Applications Development</li> <li>• SE 531 Software Virtualization</li> </ul> <p><b>Human-Centered Artificial Intelligence</b></p> <p>Required:</p> <ul style="list-style-type: none"> <li>• HCC 531 Human AI Interaction</li> </ul> <p>Choose 3 of the following:</p> <ul style="list-style-type: none"> <li>• AI 502 Introduction to Generative AI</li> <li>• AI 521 Applied Computer Vision</li> <li>• AI 551 Reinforcement Learning</li> <li>• CIS 671 Information Visualization</li> <li>• HCC 502 User Experience Research</li> </ul>