

Master of Science – Artificial Intelligence

2025-2026

REQUIREMENTS	AI TRACKS
<p style="text-align: center;"><u>Admission Requirements</u></p> <p>Candidates must satisfy all of the following:</p> <ol style="list-style-type: none"> 1. Grade point average of 3.0 (B) from all undergraduate coursework. 2. Resume detailing work experiences and accomplishments. 3. Personal statement of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives. 4. Recommendations: 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. 5. Candidates must possess knowledge of a programming language equivalent to 2 or 3 undergraduate courses. 6. Candidates must possess a knowledge of applied statistics. <p style="text-align: center;"><u>Degree Requirements</u></p> <p>The Artificial Intelligence (M.S.) program requires a minimum of 33 credits.</p> <p style="text-align: center;">Core Courses (12 credits)</p> <p>Required:</p> <ul style="list-style-type: none"> • AI 501 Introduction to Artificial Intelligence • CIS 635 Data Mining <p>Choose 2 of the following courses:</p> <ul style="list-style-type: none"> • AI 502 Introduction to Generative AI • AI 511 AI Ethics and Bias • AI 545 Machine Learning Operations • CIS 678 Machine Learning • SE 511 Intro to Software Engineering (CIS 611)* <p style="text-align: center;">Electives Requirements (3-6 credits)</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;">Capstone Requirements (3 or 6 credits)</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"> • CIS 693 Master's Project <p>Thesis sequence:</p> <ul style="list-style-type: none"> • CIS 690 Thesis Research Preparation • CIS 695 Master's Thesis 	<p>All candidates are required to complete one of the following tracks for a total of 12 credits.</p> <p>Artificial Intelligence Systems</p> <p>Required:</p> <ul style="list-style-type: none"> • AI 545 Machine Learning Operations • SE 513 Software Testing (CIS 613)* <p>Choose 2 of the following:</p> <ul style="list-style-type: none"> • AI 502 Introduction to Generative AI • AI 521 Applied Computer Vision • AI 531 Natural Language Processing • AI 541 Edge AI • AI 551 Reinforcement Learning • CIS 641 Systems Analysis and Design • SE 512 Requirements Specification (CIS 612)* • SE 530 Software Construction and Delivery • SE 536 Data Analytics in Software Engineering • SE 537 Software Quality Assurance <p>Cybersecurity and Artificial Intelligence</p> <p>Choose 4 of the following:</p> <ul style="list-style-type: none"> • AI 511 AI Ethics and Bias • CIS 518 Secure Software Engineering • CIS 616 Data Privacy and Security • CIS 619 Data Analytics for Cybersecurity • CYB 520 Trustworthy AI <p>Edge and Cloud Artificial Intelligence</p> <p>Required:</p> <ul style="list-style-type: none"> • AI 541 Edge AI <p>Choose 3 of the following:</p> <ul style="list-style-type: none"> • AI 521 Applied Computer Vision • CIS 654 Computer Networking • CIS 655 Cloud Applications Development • SE 531 Software Virtualization <p>Human-Centered Artificial Intelligence</p> <p>Required:</p> <ul style="list-style-type: none"> • HCC 531 Human AI Interaction <p>Choose 3 of the following:</p> <ul style="list-style-type: none"> • AI 502 Introduction to Generative AI • AI 521 Applied Computer Vision • AI 551 Reinforcement Learning • CIS 671 Information Visualization • HCC 502 User Experience Research

*may be listed under a CIS designation