Artificial Intelligence MS

The Master of Science in Artificial Intelligence will provide students with a comprehensive understanding of AI concepts, algorithms, and applications, preparing them for exciting and challenging careers in the rapidly growing field of artificial intelligence. Graduates of this program will be equipped to pursue various career paths in industries such as technology, healthcare, finance, gaming, and automation.

Master of Science in Artificial Intelligence - Option 1 Thesis

Prerequisite		
(Students may take a proficiency exam or complete this course offered Winter Mini or August Mini)		
CSCI 513	Python Programming for AI	3
Thesis (6 semester hours required)		
CSCI 518	Thesis (6 semester hours required)	3-6
Core Courses (19 semester hours)		
AI 500	Foundations of Artificial Intelligence	4
AI 510	Seminar in Artificial Intelligence Ethics	3
CSCI 527	Data Mining	3
CSCI 576	Computer Vision	3
AI 520	Machine Learning for Artificial Intelligence	3
ENG 685	Symbolic Computational Linguistics	3
Students must complete one of the following: (12 semester hours)		
Computer Science Emphasis (12 semester hours)		
CSCI 503	Trusted Artificial Intelligence and Autonomous Systems	3
CSCI 556	Data Analysis & Visualization	3
CSCI 560	Neural Networks and Deep Learning	3
CSCI 573	Big Data Computing and Analytics	3
English Emphasis (12 semester hours)		
ENG 555	General Linguistics	3
ENG 562	Psycholinguistics	3
ENG 682	Machine Learning for Linguists	3
ENG 683	Algorithm Design for Linguists	3
Mathematics Emphasis (12 semester hours)		
MATH 531	Theory of Matrices	3
MATH 546	Numerical Analysis and Elements of Machine Learning	3
MATH 563	Image Processing with Elements of Learning	3
MATH 569	Image Analysis and Recognition with Learning	3
Psychology Emphasis (12 semester hours)		
PSY 511	Cognitive Science	3
PSY 620	Intro to Human Cognition	3
PSY 626	Cognition/Instruction II	3
PSY 645	Introduction to Learning Technology	3
Total Hours		**37**

Master of Science in Artificial Intelligence Option II Non-Thesis

Prerequisite		
(Students may take a proficiency exam or complete this course offered Winter Mini or August Mini)		
CSCI 513	Python Programming for AI	3
Research (3 semester hours)		
CSCI 595	Research Literature and Techniques (3 semester hours required)	3
Core Courses (19 semester hours)		
AI 500	Foundations of Artificial Intelligence	4
AI 510	Seminar in Artificial Intelligence Ethics	3

CSCI 527	Data Mining	3
CSCI 576	Computer Vision	3
AI 520	Machine Learning for Artificial Intelligence	3
ENG 685	Symbolic Computational Linguistics	3
Students must complete one of the following: (12 semester hours)		
Computer Science Emphasis (12 semester hours)		
CSCI 503	Trusted Artificial Intelligence and Autonomous Systems	3
CSCI 556	Data Analysis & Visualization	3
CSCI 560	Neural Networks and Deep Learning	3
CSCI 573	Big Data Computing and Analytics	3
Engilish Emphasis (12 semester hours)		
ENG 555	General Linguistics	3
ENG 562	Psycholinguistics	3
ENG 682	Machine Learning for Linguists	3
ENG 683	Algorithm Design for Linguists	3
Mathematics Emphasis (12 semester hours)		
MATH 531	Theory of Matrices	3
MATH 546	Numerical Analysis and Elements of Machine Learning	3
MATH 563	Image Processing with Elements of Learning	3
MATH 569	Image Analysis and Recognition with Learning	3
Psychology Emphasis (12 semester hours)		
PSY 511	Cognitive Science	3
PSY 620	Intro to Human Cognition	3
PSY 626	Cognition/Instruction II	3
PSY 645	Introduction to Learning Technology	3
Total Hours		**34**