

APPLIED ARTIFICIAL INTELLIGENCE, MS

Campus: NYC, Online

This 30-credit program offers a hands-on, project-driven curriculum designed to bridge technical innovation with practical application. Through interdisciplinary coursework and real-world projects, students develop the advanced skills needed to design and implement AI solutions that create meaningful impact across industries. Close collaboration with faculty and applied learning experiences prepares graduates to address complex organizational challenges using artificial intelligence technologies.

Throughout the program, students learn to apply AI-based solutions to real-world problems using foundational models and industry-standard tools. The curriculum emphasizes evaluating user needs, translating requirements into effective AI implementations, and collaborating ethically with diverse stakeholders during the planning and execution of projects. Students also develop the ability to communicate highly technical AI concepts to non-technical audiences across professional settings.

Courses are offered both on campus and online, providing flexibility for students while maintaining strong engagement with faculty and campus resources.

Entering students with limited or no previous background are required to take IS 612 Introduction to Coding and IS 613 Database Management Systems. These courses do not count toward the degree, however, grades earned are computed into the student's QPA.

BRIDGE Courses (15 credits)

Code	Title	Credits
IS 612	Introduction to Coding	3
IS 613	Database Management Systems	3

FOUNDATION Courses (15 credits)

Code	Title	Credits
IS 614	Applied Artificial Intelligence	3
IS 680	Data Science I: Introduction to Data Science and Visualization	3
IS 685	Ethical Issues in Artificial Intelligence	3
IS 689	Human-AI Interaction	3
IS 692	Research Project Seminar	3

Total Credits **15**

CONCENTRATIONS (9 credits)

Students have the option to select a concentration or fulfill the remainder of their credits through individual elective courses.

Code	Title	Credits
Human-Centric AI Concentration		
IS 638	Introduction to User Experience Design	3
IS 679	Cognitive Science and Technology	3
CS 659	Introduction to Human Computer Interaction	3
Data-Centric Artificial Intelligence Concentration		
IS 683	Data Engineering for AI	3
IS 684	Web Mining	3
IS 669	Big Data and Information Systems	3
Computational Intelligence Concentration		
IS 682	Data Science II: Data Mining Algorithms and Applications	3
CS 632Q	Topic: Introduction to Natural Language Processing	3
CS 671	Computer Vision	3

Open Concentration

Students who choose the Open Concentration should consult with their Academic Advisor to select individual courses available on the current academic schedule. Students must also meet the prerequisites for all courses.

Course 1 3

Course 2	3
Course 3	3

OPEN Electives (6 credits)

Code	Title	Credits
Open Elective		3
Open Elective		3

Suggested Electives for the MS in Applied Artificial Intelligence Include:

IS 668	Foundation of Geographic Information Systems	3
IS 687	Social and Collaborative Computing	3
IS 678	Location Analytics and Web GIS	3
IS 688	Location Analytics and GIS Research	3
IS 690E	Topic: Information Architecture	3
CYB 631	Automating Information Security with Python and Shell Scripting	3
CYB 611	Introduction to Cybersecurity	3
CYB 651	Cyber Intelligence Analysis & Modeling	3
CYB 621	Information Security Management	3
CS 608	Algorithms and Computing Theory	3
CS 610	Introduction to Parallel Computing	3
CS 655	Pattern Recognition	3
CS 660	Mathematical Foundations of Analytics	3
CS 677	Machine Learning	3

Total Credits: 30