

MS in Artificial Intelligence Curriculum



Prepare for a career in AI

In Pace University's masters in AI, you'll go deeply into the science and technology of artificial intelligence in a rigorous academic setting. You'll learn key artificial intelligence concepts, explore AI with computer vision and neural networks, and choose electives based on your special interest.

Below is the list of courses required as part of the **Master of Science in Artificial Intelligence**:

Bridge Courses* (3 courses):

CS 608 Algorithms
CS 660 Mathematical Foundation of Analytics
CS 661 Python Programming

AI Core (2 courses):

CS 627 Artificial Intelligence
(or CS 727 Advanced AI if CS 627 or equivalent is taken)
CS 677 Machine Learning
(or CS 755 Advanced Pattern Recognition if CS 655 or equivalent has been taken)

Capstone/Thesis (Variable):

CS 668 Analytics Capstone Project
or
CS 693 & CS 694 Thesis I & II

Computing Electives (Variable):

Select 2 course from CS or IS 3-credit 600-level and above elective list if capstone is selected.
Select 1 course if thesis is selected.

AI and Analytics Electives (3 courses):

Please work with your advisor on course selection. More courses will be available as the program grows.

CS 619 Data Mining
CS 631V Intelligent Agents
CS 632Q Intro. to Natural Language Processing
CS 655 Pattern Recognition
CS 671 Computer Vision
CS 672 Intro to Deep Learning
CS 675 Intro to Data Science
CS 676 Algorithms for Data Science
CS 727 Advanced AI
CS 740 Advanced Computer Vision
CS 755 Advanced Pattern Recognition

Interdisciplinary Electives (2 courses):

PSY 612 Neuropsychology
PSY 617 Human Learning
PSY 624 Cognitive Psychology

* Credits earned from bridge courses do not count toward the completion of the MS in Artificial Intelligence degree.