Artificial Intelligence, MS (Portland)

The Master of Science in Artificial Intelligence provides a comprehensive framework encompassing foundational algorithms, theory, and practical applications in the rapidly evolving field of AI. This program offers students the essential knowledge and skills to design, develop, and implement AI systems across various high-demand sectors. The core curriculum is designed to provide in-depth understanding of fundamental AI concepts, forming a solid foundation for both theoretical and practical aspects of artificial intelligence.

The master's in artificial intelligence is an interdisciplinary degree offered by the Khoury College of Computer Sciences. Students complete a concentration in machine learning. The goal of the machine learning concentration is to provide students with practical, hands-on experience in designing, implementing, and optimizing machine learning models for real-world applications. The curriculum aims to position graduates to pursue roles that leverage AI to drive innovation and efficiency in a wide variety of industries and domains.

In this program, students are admitted to the Khoury College of Computer Sciences and their degree is awarded by that college. Students will follow all policies associated with the Khoury College of Computer Sciences.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

A cumulative GPA of 3.000 or higher is required in the following:

Code	Title	Hours
CS 5100	Foundations of Artificial Intelligence	4
CS 5130 and CS 5131	Applied Programming and Data Processing for AI and Recitation for CS 5130	4
DADS 5200	Mathematics for Machine Learning	4
or DS 5020	Introduction to Linear Algebra and Probability for Data Science	
EECE 5644	Introduction to Machine Learning and Pattern Recognition	4
or DADS 7275	Machine Learning and Data Analytics	

Required Concentration

- Machine Learning (p. 1)—Khoury College of Computer Sciences

Program Credit/GPA Requirements

32 total semester hours required
Minimum 3.000 GPA required

MACHINE LEARNING CONCENTRATION—KHOURY COLLEGE OF COMPUTER SCIENCES

Code	Title	Hours
CS 5800	Algorithms	4
Complete 8 semester hours from the following:		8
CS 5180	Reinforcement Learning and Sequential Decision Making	
CS 5330	Pattern Recognition and Computer Vision	
CS 6120	Natural Language Processing	
CS 6200	Information Retrieval	
CS 6220	Data Mining Techniques	
CS 7140	Advanced Machine Learning	
CS 7150	Deep Learning	
CS 7180	Special Topics in Artificial Intelligence	
Capstone		
Complete 4 semester hours from the following:		4
CS 6170	AI Capstone	
CS 8674	Master's Project	
Optional Co-op		
CS 6964	Co-op Work Experience	0
or CS 6954	Co-op Work Experience - Half-Time	

or CS 6955	Co-op Work Experience Abroad - Half-Time
or CS 6965	Co-op Work Experience Abroad