

Artificial Intelligence MS

COLLEGE OF SCIENCE AND TECHNOLOGY

About the Program

The MS in Artificial Intelligence is designed to equip students with strong theoretical foundations in AI and machine learning (ML), along with flexible and broad elective options (e.g. artificial general intelligence, human AI interaction, agentic AI, text mining and language processing, social network analytics, predictive modeling in biomedicine analytics, AI in finance, etc.).

Time Limit for Degree Completion: 5 years

Campus Location: Main

Full-Time/Part-Time Status: The degree program can be completed on a full- or part-time basis.

Non-Matriculated Student Policy: Non-matriculated students are permitted to take a maximum of two graduate-level CIS courses.

Financing Opportunities: Assistantships provide a stipend and full-time tuition to qualified students, but are typically reserved for doctoral students.

Admission Requirements and Deadlines

Application Deadline:

Fall Priority Deadline: March 1

Spring Priority Deadline: October 30; August 1 international

Applications submitted after the priority deadline will be considered for admission on a rolling basis. Applications are reviewed as they are received.

APPLY ONLINE to this graduate program.

Letters of Reference:

Number Required: 2

From Whom: Letters of recommendation should be obtained from faculty and professionals.

Bachelor's Degree in Discipline/Related Discipline: Bachelor of Science in Computer Science or a related STEM major.

Statement of Goals: In up to 500 words, explain your interest in this specific program and what career goals you have. Describe your work and academic experiences with specific mentions of internships, course projects, or research. Share any other relevant information that you feel should be taken into consideration.

Transcripts: Unofficial transcripts are considered at the time of applying. Official transcripts are required when accepting the offer at the time of deposit.

Standardized Test Scores:

GRE: Not required

Applicants who earned their baccalaureate degree from an institution where the language of instruction was other than English, with the exception of those who subsequently earned a master's degree at a U.S. institution, must report scores for a standardized test of English that meet these minimums:

- TOEFL iBT: 4.5
- IELTS Academic: 6.5
- PTE Academic: 58
- Duolingo: 110

Resume: Current resume required.

Transfer Credit: Graduate-level Computer Science coursework obtained no more than five years prior to the student's matriculation in the graduate program may be transferred into the Computer Science MS program. The student must have earned an "A" in the course, and must submit a rationale for applying the credits to the current graduate program. The maximum number of credits a student may transfer is 6.

Program Requirements

General Program Requirements:

Number of Credits Required Beyond the Baccalaureate: 30

Required Courses:

Code	Title	Credit Hours
Core Courses		
CIS 5525	Deep Learning (Deep Learning)	3
CIS 5526	Machine Learning	3
CIS 5603	Artificial Intelligence	3
Electives		
Select from the following: ¹		18-15
CIS 5511	Programming Techniques	
CIS 5515	Design and Analysis of Algorithms	
CIS 5516	Principles of Data Management	
CIS 5517	Data-Intensive and Cloud Computing	
CIS 5522	Human AI Interaction (Human AI Interaction)	
CIS 5523	Knowledge Discovery and Data Mining	
CIS 5524	Analysis and Modeling of Social and Information Networks	
CIS 5528	Predictive Modeling in Biomedicine	
CIS 5531	Artificial Intelligence in Finance (AI in Finance)	
CIS 5538	Text Mining and Language Processing	
CIS 5541	Optimization for Machine Learning (Optimization for Machine Learning)	
CIS 5542	Reinforcement Learning (Reinforcement Learning)	
CIS 5543	Computer Vision	
CIS 5544	Agentic Artificial Intelligence (Agentic AI)	
CIS 5545	Artificial General Intelligence (Artificial General Intelligence)	
CIS 9182	Independent Study	
or CIS 9282	Independent Study	
Capstone Course		
CIS 9995	Capstone Project	3-6
or CIS 9996	Master's Thesis Research	
Total Credit Hours		30

¹ Selection of other relevant courses requires the approval from the program director.

Contacts

Department Information:

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 313 Science and Education Research Center
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 Philadelphia, PA 19122-1801
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 215-204-8450

Submission Address for Application Materials:

https://connect.temple.edu/portal/gr_applytoday

Department Contacts:

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