

Graduate Certificate: Artificial Intelligence

COLLEGE OF SCIENCE AND TECHNOLOGY

About the Program

The Graduate Certificate 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.).

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.

Admission Requirements and Deadlines

Bachelor's Degree in Discipline/Related Discipline: All applicants must present credentials that are the equivalent of the appropriate baccalaureate degree at Temple University.

Program Requirements

General Program Requirements:

Number of Credits Required Beyond the Baccalaureate: 12

Required Courses:

Code	Title	Credit Hours
Core Courses		
Select any two of the following:		6
CIS 5525	Deep Learning	
CIS 5526	Machine Learning	
CIS 5603	Artificial Intelligence	
Electives		
Select any two from the following:		6
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)	

Total Credit Hours

12

Contacts

Department Information:

Dept. of Computer and Information Sciences

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

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