ARTIFICIAL INTELLIGENCE (GRADUATE CERTIFICATE)

The Graduate School offers a Certificate in Artificial Intelligence for those seeking to build foundational knowledge and practical skills in artificial intelligence relevant to their field. The program provides a cross-disciplinary introduction to AI concepts, methods, and system capabilities, while helping students learn to apply and evaluate AI in professional and disciplinary contexts.

Students begin with a common foundational course that establishes core knowledge of AI as well as its ethical, societal, and operational implications. They then complete a concentration aligned with their interests. The certificate will offer a range of disciplinary tracks, including a concentration focused on business applications of AI.

This 12-credit certificate prepares students to integrate AI into their field, support data-informed decision-making, and respond effectively to the growing role of AI in the workplace. The Foundations course, GRAD 5300 Foundations of Artificial Intelligence, is taught online. The Business concentration courses can be taken fully online or in hybrid form with in-person courses available at Hartford.

Location

- Hartford Campus

Modality

- Hybrid
- Online

Requirements

Course	Title	Credits
Required Course		
GRAD 5300	Foundations of Artificial Intelligence	3
Required Electives		
Three of the following:		9
OPIM 5509	Introduction to Deep Learning	
OPIM 5515	Generative AI for Business	
OPIM 5517	Building Advanced Generative AI Systems	
OPIM 5518	AI Governance: A Risk Management Framework for Trustworthy and Responsible AI	
OPIM 5603	Statistics in Business Analytics	
OPIM 5604	Predictive Modeling	
Total Credits		**12**

Learning Objectives

1. Explain foundational AI concepts, methods, and system capabilities.
2. Explain what AI "knowledge" is.
3. Analyze the suitability of AI approaches for discipline-specific problems.
4. Apply AI tools and techniques in professional and disciplinary contexts.
5. Evaluate the effectiveness, trustworthiness, and limitations of AI systems.
6. Assess the ethical, societal, and operational implications of AI use.
7. Assess the impact of learning from AI agents on human knowledge.