

# Artificial Intelligence and Machine Learning, Graduate Certificate

The graduate Certificate in Artificial Intelligence and Machine Learning is designed to equip students with cutting-edge knowledge and skills in one of the most dynamic and rapidly evolving fields today.

This program is tailored for professionals seeking to deepen their expertise in artificial intelligence (AI) and machine learning (ML), enabling them to apply advanced techniques and methodologies to solve real-world problems. The curriculum covers a broad spectrum of topics, including machine learning algorithms, neural networks, natural language processing, and data analytics, ensuring that graduates are well-prepared to lead and innovate in their respective industries.

The certificate is an ideal complement to the Master of Science in business analytics.

## Learning Outcomes

Students who earn the Certificate in Artificial Intelligence and Machine Learning will be able to:

- understand the foundations of modern AI and machine learning algorithms;
- design and implement AI and machine learning solutions to real-world problems; and
- assess the effectiveness of different AI and machine learning approaches for analyzing unstructured data.

## Requirements

The graduate Certificate in Artificial Intelligence and Machine Learning requires 12 s.h. of credit. Students must earn a Graduate College program grade-point average (GPA) and UI cumulative GPA of at least 2.75 to complete the certificate.

Applicants must meet the admission requirements of the Graduate College and the Certificate in Artificial Intelligence and Machine Learning. For additional information, see the Manual of Rules and Regulations on the Graduate College website and Certificate-Only Admissions on the Tippie College of Business website.

With program approval, students may count up to 3 s.h. of previous graduate or professional coursework toward the certificate.

Certificate courses are offered online. Not all courses listed are regularly offered. Students should consult MyUI for course availability and/or discuss course offerings with their advisor.

The Certificate in Artificial Intelligence and Machine Learning requires the following coursework.

Course #	Title	Hours
This course:		
BAIS:6250	Applied Deep Learning	3
Three of these (9 s.h.):		
BAIS:6100	Text Analytics	3

BAIS:6105	Social Analytics	3
BAIS:6130	Applied Optimization	3
BAIS:6260	Generative Artificial Intelligence	3