

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING - CERTIFICATE

The certificate in Artificial Intelligence and Machine Learning is designed for professionals (engineers, analysts, and researchers across many disciplines) to deliver an introduction to techniques, methodologies, and tools in the area of Artificial Intelligence and Machine Learning.

This graduate-level certificate in Artificial Intelligence and Machine Learning will prepare new and experienced professionals to understand the capabilities of modern Artificial Intelligence methodologies and Machine Learning approaches and to effectively apply them in their respective fields of operation. Individuals who complete the program will be able to analyze statistical analysis and machine learning techniques. They will be able to synthesize, use, and assess appropriate artificial intelligence models to solve real-world problems. They will be able to use and assess state-of-the-art artificial intelligence and machine learning tools and will be able to correctly interpret their findings.

The certificate in Artificial Intelligence and Machine Learning provides a flexible curriculum with focus on an algorithmic and foundational aspects with the possibility to integrate application aspects, such as robotics, natural language processing, pattern matching, and others. Courses will be offered by distance learning to provide a flexible schedule for working professionals. Interactive course work, such as collaborative project work in courses, interactions with classmates and instructors on zoom, chat rooms and discussion boards, will complement traditional learning modules with opportunities to interact with other students and provide networking and cohort opportunities.

This program is approved for delivery via asynchronous and synchronous distance education technology.

Program Requirements

Code	Title	Semester Credit Hours
Select four of the following: ¹		12
CSCE 625	Artificial Intelligence	
CSCE 633	Machine Learning	
CSCE 635	AI Robotics	
CSCE 636	Deep Learning	
CSCE 642	Deep Reinforcement Learning	
Total Semester Credit Hours		12

¹ Additional courses available with consultation of academic advisor.

All courses must be completed with a grade of C or above.