

Artificial Intelligence and Machine Learning Certificate

Artificial Intelligence and Machine Learning Certificate Requirements

9-10 CREDITS

Code	Title	Hours
Students are required to take three (3) courses to total 9-10 credits:		
CS 4300	Artificial Intelligence ¹	3
Prerequisites: CS 2420 and CS 2810 and CS 3005 Grade C or higher		
CS 4320	Machine Learning ¹	3
Prerequisites: CS 2420 and CS 2810 and CS 3005, Grade C or Higher		
Choose one of the following MATH courses		
MATH 2050	Applied Statistics with Programming	3
Prerequisite: Math 1040 or Higher MATH course or STAT 2040, Grade C or higher		
MATH 2250	Differential Equations and Linear Algebra ¹	4
Prerequisite: Math 1220 Grade C or higher		
MATH 3400	Probability & Statistics	3
Prerequisite: MATH 1210 Grade C or higher		

1. Course Fee Required. See Course Fee Tab (<https://catalog.utahtech.edu/programs/computing/artificial-intelligence-and-machine-learning-certificate/> Zoom link: <https://utahtech-edu.zoom.us/j/2882317124/>) for details.

COMPLETION REQUIREMENT

1. Complete all courses that fulfill the requirements in the certificate with a cumulative GPA of 2.0.

Notes:

The Artificial Intelligence and Machine Learning Certificate is designed for students majoring in Computer Science, Data Science, Computer Engineering, Electrical Engineering, or Mechanical Engineering who want to deepen their understanding of AI and machine learning through hands-on learning and industry-focused experience.

Artificial Intelligence and Machine Learning Certificate Program Learning Outcomes

At the successful conclusion of this program, students will be able to:

1. Apply core concepts of artificial intelligence and machine learning.
2. Implement and work with modern AI/ML models.
3. Use mathematical and statistical reasoning in AI/ML problem-solving.
4. Develop and communicate applied AI/ML projects.
5. Identify and address ethical considerations in AI/ML systems.