

# Syllabus for APC 425: Machine Learning

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**NOTE:** This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

## Course Description

Introduction to machine learning and methods, including neural networks and deep learning. Incorporates underlying concepts, hands-on experience and machine learning tools. Topics include generative AI and large language models, supervised, unsupervised, and reinforcement learning.

## Prerequisite(s)

APC 350: Programming II

## Course Outcomes

Upon completing this course, you will be able to do the following:

- Understand what machine learning is and what are its benefits and applications.
- Understand the concepts behind different machine learning methods.
- Apply machine learning methods to make predictions for any real-world application.
- Evaluate, analyze, and compare performance of machine learning methods.

## Course Requirements/Components

- Weekly Quizzes
- Assignments
- Midterm
- Final Exam

## Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

Grade	Percentage Range
A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0% - 59%

Evaluation Methods	Percentage of final grade
Weekly Quizzes	15%
Assignments	40%
Midterm	20%
Final Exam	25%