MAT 340: Artificial Intelligence

Fall 2025

MWF 8:00 – 8:50

Topic Schedule

The contents of this schedule are subject to change. The instructor will notify students of any changes.

Unsorted days:

Section topic	**Assignments**
Unsupervised Learning	
Natural Language Processing tools Chapter 5 Part 1 (PCA) Discussion	Assignment A
PCA Practice	Assignment A
Chapter 5 Part 2 (LDA) Discussion	Assignment A
LDA Practice	Assignment A
Chapter 8 Sentiment analysis	Assignment A
Chapter 11 K-Means Clustering (Iris database)	Assignment A
K-nearest neighbors	Assignment A

Week	**Date**	**Section topic**	**Assignments**
1	Aug 27 W	Introduction, course policies, textbook	Assignment 1
	Aug 29 F	What is AI?	
2	Sep 1 M	No School - Labor Day	
	Sep 3 W	Chapter 1 discussion	Assignment 2
	Sep 5 F	Finish Chapter 1	
3	Sep 8 M	Start Chapter 2 (The perceptron)	
	Sep 10 W	Finish Chapter 2 (Adaline)	
	Sep 12 F	MNIST and a single perceptron	
4	Sep 15 M	MNIST and multilayer perceptron	
6	Sep 29 M	Derivative, Partial Derivatives and the Gradiant	