

Course Syllabus

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NOTE: Some links in this syllabus page may only be accessible to currently enrolled students.

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Instructor Introduction

Hi everyone! My name is Yong Bakos, and I am your Instructor this term for CS 513 Applied Machine Learning.



CS 513 Instructor Introduction

Yong Bakos

03:18

This course was originally developed by Yong Bakos. Our goal is to teach graduate students pursuing a masters in data science and statistics about the vocabulary, concepts, algorithms, applications, tools and code that machine learning practitioners use. This is a technical course, but it is not a "hard core" programming course. Because machine learning is a broad, deep and rapidly-changing field, no single course will enable one to be a master of machine learning. We have chosen to equip each student with a strong foundation in machine learning, integrating both knowledge and skill-building, to support your future studies. If you do not know anything about machine learning, you are in the right place.

Based on our past experience, the two most important things to do in this course are:

- **Ask lots (lots!) of questions** using the communication tools of the course
- **Schedule dedicated focus time** to start the module content and assignments early

Remember, *online does not mean alone*. One component of value in this course is engaging with other people learning the same thing at the same time and having an instructor to help guide that learning. If you are not active on the Ed discussion board you will get much less out of the course. Students who engage with each

other, the content and the teaching staff tend to do better in the course and have a more positive experience than those who don't.







We are looking forward to working with you and supporting your success in this course!












Instructor: Yong Bakos





Return to Modules

<https://canvas.oregonstate.edu/courses/2025514/modules>

Course Summary:

Date	Details	Due
Sun Apr 6, 2025	 Notebook 1: Introduction to Jupyter Notebooks (w1) https://canvas.oregonstate.edu/courses/2025514/assignments/10065698	due by 11:59pm
	 Quiz 1: Machine Learning Concepts & Vocabulary (w1) https://canvas.oregonstate.edu/courses/2025514/assignments/10065688	due by 11:59pm
	 Quiz: Syllabus and 'Start Here' https://canvas.oregonstate.edu/courses/2025514/assignments/10065694	due by 11:59pm
Sun Apr 13, 2025	 Quiz 2: Data Types, Preprocessing & Similarity Metrics (w2) https://canvas.oregonstate.edu/courses/2025514/assignments/10065693	due by 11:59pm
	 Notebook 2: Data Exploration, Preprocessing & Similarity Metrics (w2) https://canvas.oregonstate.edu/courses/2025514/assignments/10065699	due by 11:59pm
Sun Apr 20, 2025	 Quiz 3: k-Nearest Neighbors (w3) https://canvas.oregonstate.edu/courses/2025514/assignments/10065686	due by 11:59pm

Date	Details	Due
	 <u>Notebook 3: Classification with k-Nearest Neighbors (w3)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065700)	due by 11:59pm
	 <u>Quiz 4: Perceptrons (w4)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065690)	due by 11:59pm
Sun Apr 27, 2025	 <u>Notebook 4: Classification with Perceptrons (w4)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065701)	due by 11:59pm
Sun May 4, 2025	 <u>Midterm Exam (w5)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065696)	due by 11:59pm
	 <u>Quiz 5: Deep Learning (w5)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065695)	due by 11:59pm
Sun May 11, 2025	 <u>Quiz 6: Linear Regression & Gradient Descent (w6)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065692)	due by 11:59pm
	 <u>Notebook 6: Predicting Housing Prices with Linear Regression (w6)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065702)	due by 11:59pm
Sun May 18, 2025	 <u>Quiz 7: Logistic Regression (w7)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065691)	due by 11:59pm
	 <u>Notebook 7: Classification with Logistic Regression (w7)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065703)	due by 11:59pm
Sun May 25, 2025	 <u>Quiz 8: Support Vector Machines (w8)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065687)	due by 11:59pm
	 <u>Notebook 8: Classification with Support Vector Machines (w8)</u> (https://canvas.oregonstate.edu/courses/2025514/assignments/10065704)	due by 11:59pm

Date	Details	Due
Sun Jun 1, 2025	 Quiz 9: Text Classification & Sentiment Analysis (w9) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065685)	due by 11:59pm
	 Notebook 9: Text Classification & Sentiment Analysis (w9) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065705)	due by 11:59pm
Fri Jun 6, 2025	 Quiz 10: Reflection on Machine Learning (w10) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065689)	due by 11:59pm
Thu Jun 12, 2025	 Final Exam (w11) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065697)	due by 11:59pm