



THE OHIO STATE UNIVERSITY

STAT 4620

Introduction to Statistical Learning (23377)

Autumn 2026

Syllabus - Instructor Information

Arnab Auddy

Professional Qualifications

Assistant Professor

Syllabus - Required or Recommended Readings

James, G., Witten, D., Hastie, T., and Tibshirani, R. An Introduction to Statistical Learning with Applications in R.

Springer

Syllabus - Course Schedule

Week	Topic	Reading (Chapters of textbook)
1	Linear Regression	Chapters 1-3
2	Introduction to Cross Validation	Chapter 3, Sec. 5.1
3	Classification	Chapter 4
4	Introduction to Bootstrap	Chapter 5
5	Regularization	Chapter 6
6	Dimension Reduction	Chapter 6

7-8	Splines	Chapter 7
9	Generalized Additive Models	Chapter 8
10-11	Trees	Chapter 8
12	Clustering	Chapter 10
13-14	Final project discussion/ additional topics	

Course Details - Instructor Contact Details

Instructor email: auddy.1@osu.edu

Course Details - Office Hours

Time: Fridays 10 AM to 12 noon

Location: Cockins Hall 204D

Course Details - Class Meeting Details

Class Meeting Details: 12:40 PM-01:35 PM - Pomerene Hall 250 - WF

Course Details - Course Description

The course provides an introduction to the principles of statistical learning and standard learning techniques for regression, classification, clustering, dimensionality reduction, and feature extraction. Prereq: C- or better in 3302, or permission of instructor.

Prerequisite(s) / Corequisites: Prereq: C- or better in 3302, or permission of instructor.

Course Details - AI Use Policy

It is acceptable to use online resources, including generative artificial intelligence (GenAI), for tasks such as clarifying lecture material, seeking examples, and brainstorming ideas. Just as you would consult with a classmate for these purposes without violating academic integrity, you may also turn to GenAI. Students are permitted to use GenAI tools with this declination for most course assignments, except for exams.

If you use GenAI in any of your assignments, please include a statement in your assignment specifying the name of the tool you used (e.g. Copilot, ChatGPT, Grammarly, etc..) and how you used it, i.e., which parts of the assignment you used AI on, and what prompts you gave.

You are responsible for ensuring that the information you submit based on a GenAI query does not contain misinformation, unethical content, or violate intellectual property laws. Submission of GenAI-generated content as your own work is considered a violation of Ohio State's Academic Integrity policy and Code of Student Conduct because the work is not your own. The use of unauthorized GenAI tools will result in referral to the Committee on Academic Misconduct.

If I suspect that you have used GenAI inappropriately on an assignment for this course, I will ask you to communicate with me to explain your process for completing the assignment in question.

Syllabus - University Policies

Office of Undergraduate Education - Standard Syllabus Statements

- [Academic Misconduct](#)
- [Religious Accommodations](#)
- [Accommodations for Disability and Illness](#)
- [Intellectual Diversity](#)
- [Grievances and Solving Problems](#)
- [Creating an Environment Free from Harassment, Discrimination, and Sexual Misconduct](#)
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