STA 131B: WELCOME!

INTRODUCTION TO THIS COURSE AND MATHEMATICAL STATISTICS

Hang Zhou

Department of Statistics, University of California, Davis

April 1, 2024

INTRODUCTION

- ▶ Instructor: Hang Zhou
 - Office hour: Mon 4:10-5:10pm @ 4229 MSB
 - Email: hgzhou@ucdaivs.edu
 - Lectures: M W F, 3:10-4pm @ Wellman Hall 216
- TA: Jedidiah Harwood
 - Office hour: Tu 10:00-12:00 @ MSB 1117 (the TA office)
 - Email: jedharwood@ucdavis.edu
 - Discussion: R, 2:10-3pm @ Olson Hall 205
- ► Website: https://hg-zh.github.io/teaching/STA131B2024S
 - You can download the class material on it!
- Recommended Textbook: (not necessary for that class) Probability and Statistics, 4th Edition, by Morris DeGroot and Mark Schervish, Addison and Wesley, ISBN-13: 978-0321500465

GRADING

Homework	Midterm 1	Midterm 2	Final
20%	20%	20%	40%

► Weekly homework: 20%

► Midterm 1 (April 22): 20%

► Midterm 2 (May 15): 20%

► Final: Jun 10 (Mon): 40%

HOMEWORK

- There will be weekly assignments posted on canvas and course website.
- ► The HW will be due **Mondays at 4pm**.
- Solutions will be discussed in the discussion sections on Thursday.
- Late HW will not be accepted!

Homework is important!!!

Feel free to share your experience with me regarding the HW. How much time you spend weekly? Too easy/Too hard?

EXAMS

Midterm 1

- ► In Class (April 22).
- Scope: Introduction, MLE, Method of Moments, Bayesian Method.

Midterm 2

- ► In Class (May15).
- Scope: Sufficient Statistics, Properties of Estimators.

Final

- ▶ Jun 10 (Mon) 3:30-5:30pm.
- Scope: Fisher Information and Efficient Estimation, Sampling Distribution, Confidence Intervals, Large Sample Properties of Estimators (if time permitted).

There will be a review lecture before each exam.

COMMUNICATION

We will use **Canvas** and **Gradescope**.

- ► All class materials, notes, assignments and zoom recordings will be posted on **Canvas**, and the homework are graded on **Gradescope**.
- ▶ The lecture notes will be posted one day before the lectures.
- Homework will be posted on both Canvas and the course website (https://hg-zh.github.io/teaching/STA131B2024S) before Wednesday.
- Free feel to contact me by email at anytime. I will reply you in 1 weekday. If not, feel free send me a reminder.

Q&A

Q: What if I miss the midterm(s)?

A: Students missing the midterms can use their **next** midterm or final exam grades as their midterm grade.

E.g. If Student A misses his Midterm 1, then his final grade will be 20% HW + 40% Midterm 2 + 40% Final

E.g. If student B misses his Midterm 2, then his final grade will be 20% HW + 20% Midterm 1 + 60 % Final

E.g. If student C misses both Midterm 1&2, then his final grade will be 20% HW + 80 % Final

Q: What if I miss the final?

A: You need to take an oral exam instead.

Q: What is difficulty levels of each exam.

A: Generally speaking, the difficulty levels are ranked as

Mid 1 < Mid 2 < Final < Oral final