STAT 285: Intermediate Probability and Statistics (Spring 2023)

(http://www.sfu.ca/~joanh/stat285web.html)

(https://canvas.sfu.ca/courses/75996)

Lecture

Tuesday 10:30 - 12:20 ~~BLU 9920~~ AQ5006, Friday 10:30 - 11:20 SWH 10041 (Jan 4 - Apr 11, 2023)

- An outline of each lecture will be posted in the course's webpage and canvas-page before the lecture time.

Instructor

X. Joan Hu (http://www.sfu.ca/~joanh/), SSC K10555 (SFU - Burnaby Campus), 778-782-6714, joanh@stat.sfu.ca

Office-Hour:

- Regular Time (Jan 9 - Apr 11 2023): Tuesday 13:30 - 14:20, K10555 or by appointment

- Finalexam Period (Apr 13 - 24 2023): TBA.

- Post Term (final exam paper review): 10:00-12:00 Fri May 15 2023

Tutorial

Sessions 1-2 (STAT 285-D101 and D102): Mo 13:30 - 14:20, ~~WMC3511~~ BLU10901; Mo 14:30 - 15:20, BLU10901. (Starting from the week of Jan 16.)

Teaching Assistant

Quinn Forzley (qjf@sfu.ca) for tutorial, and Trevor Thomson (tta51@sfu.ca) for marking.

Quinn's Office-Hour:

- Regular Time (Jan 16 - Apr 11 2023): TBA.

- Finalexam Period (Apr 13 - 23 2023): TBA.

Textbook

Probability and Statistics for Engineering and the Sciences (9th Ed), by Jay L. Devore

Approximate Course Outline (chapters from the textbook)

- Weeks 1,2: Review (Chp 1-5)

- Weeks 2,3,4: Estimation (Chp 6-7)

- Weeks 4,5,6: Testing (Chp 8-9)

- Weeks 6,7,8: Analysis of Variance (Chp 10-11)

- Weeks 8,9,10: Regression Analysis (Chp 12-13)

- Weeks 10 - 13: Selected Topics (e.g. Categorical Analysis, Chp 14; Nonparametrics, Chp 15; Quality Control Methods, Chp 16)

Computing

Your choice (R and SAS are recommended; R is used for examples in class.)

Evaluation

- Homework (10%; 11 assignments with 1 point/assignement): assigned once a week, collected by Monday of the following week before 17:00, and returned by Monday of the next week.

  - Weeks 5 and 10 are exceptions as the two midterms are held in the weeks.
  - Late homework is not collected unless it is due to a medical issue.

- Midterm (40%; two midterms with 20 points/midterm): SWH 10041, Fridays of Weeks 5 and 10 (Feb 3 and Mar 10).

  - The tests are open-book, and calculators are allowed.
  - There will be no makeup for a missing midterm. If it is due to a medical issue, one missing midterm score may be imputed using the other midterm score, and two missing midterm scores will be imputed based on an individual oral exam on the tested material.

- Finalexam (50%): TBA.

  - The exam is close-book; calculators are allowed, and each student may use one letter size page (8.5×11 inches) of formula during the exam.

- *In-Class Quiz* (bonus): Nonscheduled quizzes may be given to check how well some important material is understood.

- Calculation options for the final grade

  $10\ HWs + 2\ Midterms + Finalexam$, or
  $10\ HWs + 1\ Midterm + Finalexam * 7/5.$

Links to Course Pages

Course webpage: `http://www.sfu.ca/~joanh/stat285web`

Course canvas-page: `https://canvas.sfu.ca/courses/75996`