STAT 4202 Syllabus
Introduction to Mathematical Statistics II

Instructor: Dr. Lo-Bin Chang
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Office: CH 440F
Office Phone: 614-292-8876
Class Times: MWF 3:00PM-3:55PM
Class Location: Sullivant Hall 220
Office Hours: W 3:55PM-5:30PM

TA: Qian Qian (email: qian.216@osu.edu)

    Chenxi Zhou (email: zhou.779@osu.edu)

Grader: Peilin Sun (email: sun.1833@osu.edu)

Main Text: *John E. Freund's Mathematical Statistics with Applications (8th edition) by Irwin Miller and Marylees Miller*

Tentative Topics:
Chapter 10: Point Estimation (3 weeks)
Chapter 11: Interval Estimation (2 weeks)
Chapter 12: Hypothesis Testing (2 weeks)
Chapter 13: Hypothesis Testing Involving Means, Variances, and Proportions (3 weeks)
Chapter 16: Nonparametric Tests (2 weeks)
Chapter 14: Regression and Correlation (2 weeks)

Prerequisites: Stat 4201 (420), Math 4530 (530) or 5530 H (531 H).

Website: Homework and other relevant material will be posted on Carmen. Please check the website regularly.

Grading: The final course grade will be based on the following weighting of assessment components:

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Homework quizzes (15%)
Midterm I   (25%)
Midterm II (25%)
Final Exam (35%)

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Homework quizzes: Homework assignments will be posted on the course website or given in class, and there will be a short (20 minutes) pop quiz about every other week during the recitation. Homework will not be collected, but the quiz problem(s) will be taken directly from the homework. You are encouraged to discuss homework problems with other students. Your lowest quiz score will be dropped at the end of the semester, so missed quizzes cannot be made up for any reason.

Exams: All exams will be closed-book. The final exam will be cumulative, but will emphasize more on the recent material. All exams will be in the same room Sullivant Hall 220. The schedule is as follows:

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Midterm I: 3:00pm~3:55pm, Wednesday February 14
Midterm II: 3:00pm~3:55pm, Monday March 26
Final Exam: 4:00pm~5:45pm, Friday April 27

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Academic Misconduct: You are expected to produce independent work for homework assignments and exams. Academic misconduct for any sort will not be tolerated. If students are caught indulging in dishonest activities during the exams, they will be reported immediately, without any exception. Please review OSU's policies at http://studentaffairs.osu.edu/csc/.

Special Accommodation: Students with disabilities (including mental health, chronic or temporary medical conditions) may be eligible for reasonable accommodations. All accommodations are coordinated through the Office of Student Life Disability Services located in 098 Baker Hall, 113 W. 12th Avenue; telephone 614- 292-3307, slds@osu.edu; slds.osu.edu. Please contact the Office of Student Life Disability Services as early in the semester as possible.

Remark: Since we cover the fundamental topics in statistics with rigorous mathematical treatments and various applications, the course fulfills along with the latest faculty agreed upon General Education Goals and Expected Learning Outcomes of Data Analysis:
Goals: Students develop skills in drawing conclusions and critically evaluating results based on data.
Expected Learning Outcomes:
  1. Students understand basic concepts of statistics and probability.
  2. Students comprehend methods needed to analyze and critically evaluate statistical arguments.
  3. Students recognize the importance of statistical ideas.

Note: The above schedules might be slightly different from the actual course activities. Please be aware of the possibility of date change of Exam 1 or Exam 2.