

Math 411C Spring 2015
Mathematical Statistics II

Instructor: Dr. Kathy Temple

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Office Hours: MWF 9:00 - 9:50 AM, Th 12:00 - 12:50 PM, and by appointment.

Course Goals: At the end of this course, students should understand some further topics in mathematical statistics. Specifically, we will cover:

- Properties of point estimators.
- Bayesian estimation.
- Interval estimation (confidence intervals).
- Hypothesis tests, both the general theory and common specific situations.

Prerequisite: Math 411B or permission.

Required Text: Hogg, Tanis, and Zimmerman, *Probability and Statistical Inference*, 9th Edition. This quarter we are planning to cover the remainder of chapter 6 and (parts of) chapters 7 and 8.

Evaluation:

- Two in-class exams (35% total); tentative dates: Friday, April 24 and Wednesday, May 20.
- Comprehensive final exam (25%); given Tuesday, June 9, from 8 - 10AM.
- Homework (40%).

Course Conduct:

- **Required Materials:** The textbook is required. You will also want at least a scientific calculator. For those planning to take Exam P, I strongly recommend the TI-30X MultiView or TI-30XII.
- **Homework:** Homework will be assigned often in class and due dates will be announced at the time of the assignment. Homework must be done neatly, *stapled*, and written on clean-edged paper (no notebook fringes). Your work should be clear, in a logical order, and provide sufficient explanation. What's sufficient explanation? A good guide is to think about whether another student in the class who didn't know how to do this particular problem could understand your solution. This will also help you understand your solution later! Credit will not be given for late homework.
- **Exams:** Any changes to the tentative exam schedule will be announced in advance. Make-up arrangements must be made prior to an exam unless you can document an unexpected circumstance beyond your control that prevented you from taking the exam.

- **Office Hours:** I am not generally planning to be on campus on Tuesdays, but am happy to set up appointments if necessary and if this is arranged in advance. In addition to scheduled office hours, Monday, Wednesday, and (most) Friday afternoons will generally be good times to find me. If you are coming in to office hours to ask a question, please bring your class notes with you, and (for homework questions) the work you have done so far on the problem.
- **Other Information:** Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their “Confirmation of Eligibility for Academic Adjustments” from the Center for Disability Services as soon as possible so we can discuss how the approved adjustments will be implemented in class. Students without this form should contact the Center for Disability Services, Bouillon 140 or dssrecept@cwu.edu or 963-2171.