

**Math 411C Spring 2016**  
**Mathematical Statistics II**

**Instructor:** Dr. Kathy Temple

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**Office Hours:** MF 11:00 - 11:50 AM, T 3:30 - 4:30 PM, W 9:00 - 9:50 AM, 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 (40% total); tentative dates: Friday, April 22 and Wednesday, May 18.
- Comprehensive final exam (30%); given Tuesday, June 7, from 8 - 10AM.
- Homework (30%).

**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 Tuesday mornings/early afternoons and Thursdays, but am happy to set up appointments if necessary and if this is arranged in advance. In addition to scheduled office hours, the block between 11 and 2 MWF will often be a good time to find me, as will (typically) late afternoons MW. 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:** Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email [ds@cwu.edu](mailto:ds@cwu.edu) for more information.