

## Statistics 6301: Probability for Statistical Inference

Autumn 2014

Instructor: Dr. Elizabeth A. Stasny, 427 Cockins Hall, 292-0784, eas@stat.osu.edu

Office Hours (Stasny): Monday 1:00-1:50 p.m. and Wednesday 3:00-3:50 p.m.

Course Assistant: Ms. Ziyue Chen, 304B Cockins Hall, chen.2699@osu.edu

Office Hours (Chen): Monday and Friday 2:00-2:50 p.m.

Text: Rice, *Mathematical Statistics and Data Analysis*, 3<sup>rd</sup> Edition. We cover the first six chapters of the book in this class. (The book is also used for 6302.)

Prerequisites: Math 4547 or Math 548 or permission of the instructor.

Course Requirements: You are responsible for all material covered in class, in assigned readings, and on homework assignments. You are expected to attend all classes.

Web Page: Course information and grades on assignments and exams will be available through Carmen (<https://carmen.osu.edu/> using your OSU user ID and password).

Homework: Assignments will be due approximately weekly. **No late assignments will be accepted.** While I encourage graduate students to work together and learn from each other, the work you turn in must be your own. Academic misconduct of any sort will not be tolerated and will be dealt with as required by the OSU Code of Student Conduct (see <http://studentaffairs.osu.edu/resources>).

Writing: Being able to interpret results from a statistical analysis and explain those results to a non-statistician are crucially important skills. We work to build those skills in this class. Thus, solutions to applied problems must always be given in proper English in terms of the problem.

Midterms: Friday, October 3 and Friday, October 31. One sheet (8.5" x 11") of handwritten notes may be used for each exam.

Final Exam: Monday, December 15, 12:00-1:45 p.m. Two sheets (8.5" x 11") of handwritten notes may be used for the exam.

Grades: The final numerical grade will be determined as follows:

|                                 |     |
|---------------------------------|-----|
| Homework (lowest grade dropped) | 20% |
| Midterm Exam I                  | 20% |
| Midterm Exam II                 | 20% |
| Final Exam                      | 35% |
| Class Participation             | 5%  |

(over)

Important dates:

No class on Monday, September 1 for Labor Day.

I will be out of town on Friday, October 3 – the date of Midterm Exam 1.

No classes on November 26 and 28 for Thanksgiving.

Other Useful Information:

See Professor Doug Critchlow (dec@stat.osu.edu) if you wish to enroll in the dual degree program with the MAS as your second degree.

See Dr. Deb Rumsey (rumsey@stat.osu.edu) if you wish to enroll as a student in our graduate minor.

Other Useful Books:

*Introduction to Mathematical Statistics*, by Hogg and Craig

*Introduction to Probability and Mathematical Statistics*, by Bain and Engelhardt