Statistics 6301 (Autumn 2015)
Probability for Statistical Inference

Instructor	Professor Shili Lin, 440A Cockins Hall, 2-7404, shili@stat.osu.edu
Lectures	MWF 11:30 AM - 12:25 PM, Cockins Hall 232.
	No classes on September 7, October 16, November 11, 25, and 27.
Office Hours	MW 10:00 AM - 11:00 AM, 440A Cockins Hall
Grader	Yuyang Zhang, 332 Cockins Hall, 247-2013, zhang.3042@osu.edu (OH TBA)
Website	Course information and grades on assignments and exams will be available through Carmen (https://carmen.osu.edu)

Text   *Mathematical Statistics and Data Analysis* by John Rice, 3rd Edition. Note: International edition has different exercises problems and is therefore not recommended.

Prerequisites   Math 4547 or Math 548 or permission of instructor.

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

Homework   Assignments are due approximately weekly. You may discuss with other students, but DO NOT simply copy any part of someone else's work or solutions from any other sources. Violations will be treated as academic misconducts. Homework will be collected in class and solutions will be posted right afterward. **No late homework will be accepted.**

Midterms   Friday, September 25 and Wednesday October 21. One sheet (8.5" x 11") of notes may be used for each exam. **No make-up exam will be given.**

Final Exam   Thursday December 17, 10:00 AM - 11:45 AM. Two sheets (8.5" x 11") of notes may be used for the exam. **No make-up exam will be given.**

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	40%

Special Accommodations   If you need any accommodations based on the impact of a documented disability, contact the instructor privately to discuss your specific needs. You should also contact the Office of Disability Services to coordinate special accommodations.

Academic Misconduct   Academic misconduct will not be tolerated and will be dealt with in accordance with university policy (/studentaffairs.osu.edu/resources).

Tentative Schedule

Topics	Chapters	No. of Lectures
Sample space and probability	1	5
Univariate random variables	2	9
Joint distributions	3	9
Expectations and variances	4	9
Law of large numbers and central limit theorem	5	4
Normal-derived distributions	6	3

Tentative Homework Assignments and Due Dates*

HW	Due Date	Chapters Covered
1	Friday, September 4	1
2	Monday, September 14	1, 2
3	Monday, September 21	2
4	Wednesday, September 30	2
5	Wednesday, October 7	2, 3
6	Wednesday, October 14	3
7	Monday, October 26	3
8	Monday, November 2	3, 4
9	Monday, November 9	4
10	Wednesday, November 18	4
11	Monday, November 30	4, 5
12	Monday, December 7	5

*Homework assignments will be posted on the course website. The schedule and chapters covered are tentative; actual due dates will be announced in class.

Other Helpful Information

Full credit policy. Full credit for each homework or exam problem can only be earned through showing your justification for or work on each problem. Answers without work will not receive full credit.

Homework grading. All homework must be stapled with your name written legibly on the fist page. If you have a question about the grading of your homework, first ask the grader about it. If you are not able to resolve the grading issue with the grader, you may file an appeal with me as described next.

Grade appeals. If you believe that you received an inappropriate grade for a specific piece of graded work (homework or exam), you may file an appeal with me. An appeal consists of a neatly written or typed note on 8.5" x 11" paper attached to your homework that explains what I should consider. All appeals must be filed with me in a timely manner. Homework grade appeals will be accepted within 10 days, and exam grade appeals will be accepted within 7 days of the date the graded work was returned to students. Remember, for homework you should file an appeal only if you cannot resolve the issue with the grader first.

Calculators. Calculator (with statistical functions) may be used for homework and exams. No calculator functions of cell phones or other communication devices will be allowed during exams.

Communication devices. Cell phones and other communication devices must be either turned off or put on vibrate during class, as these devices ringing during class disrupt the learning process. Additionally, no cell phones or other communication device will be allowed on any exams in the course.