

Statistics 6201

Mathematical Statistics
Autumn 2014 Syllabus

August 25, 2014

Instructor:	Dr. Ramos	When:	M,W,F 8:00-9:15
Email:	ramos@stat.osu.edu	Where:	CL 0115 (Caldwell Laboratory 115)
Email Subject:	STAT6201 - <i>last name</i> - <i>subject</i> ¹	Office Hours:	TBA
Office:	CH 425 (Cockins Hall)		
Website:	Carmen		

Grader: Meng Li
Email: li.2187@osu.edu
Office: MA 422 (Mathematics Building)
Office Hours: TBA

Course Description

Probability, random variables, expectation, moment generating functions, discrete and continuous distributions, limit theorems, maximum likelihood and Bayesian estimation, confidence intervals, hypothesis tests, Neyman-Pearson lemma, t and F tests.

Pre-requisites

Math 2153 (254) or equivalent, or permission of instructor. Not open to students with credit for 6301 (610) or 6801 (620).

Textbook

Probability and Statistics 4th edition by DeGroot and Schervish.

Homework

There will be approximately 11 graded homework assignments; the due dates will be announced IN CLASS. The assignments and solutions will be posted on Carmen. You must show your work for all homework problems in order to get partial/full credit; DO NOT JUST WRITE THE FINAL ANSWER.

Exams

Two midterm exams will be given in class. For each test, you will be permitted one sheet of 8.5" x 5.5" (half letter) with whatever HANDWRITTEN facts, formulas or explanations you find helpful may be brought to each midterm/final exam (ONLY ONE SIDE OF THE PAPER MUST BE USED).

¹e.g. STAT6201 - Ramos - Appointment next Tuesday

The final exam will be cumulative, with a slight emphasis on those topics covered after the second midterm. BASIC calculator may be allow and will be approve and announce in class; in case it is announced NO GRAPHING CALCULATORS, CELL PHONES, TABLETS, OR PDAs will be accepted.

There will be NO makeup exams. The only excuses for missing an exam are a serious illness or a major family crisis. Proof must be provided in the form of an official document. A NOTE FROM A FAMILY MEMBER ALONE IS NOT SUFFICIENT.

You have until one week after receiving your grades on the exams to dispute the grade ² (the same applies to any homework grade).

Grading

The final course grade will be based on:

Homework	25%
Midterm 1	20%
Midterm 2	20%
Final Exam	35%

Academic Misconduct

Please help maintain an academic environment of mutual respect and fair treatment. You are expected to produce original and independent work on the exams. Although students are often encouraged to work together on homework assignments, all students must submit their own work in their own words. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). Academic misconduct will not be tolerated and will be dealt with procedurally in accordance with university policy, which can be found at <http://oaa.osu.edu/coam.html>. The Code of Student Conduct is available at <http://studentaffairs.osu.edu/csc/>.

Communication Devices

Cell phones, PDAs and other communication devices must be either turned off or put on vibrate during class. Please refrain from texting during class as a courtesy to those presenting and sitting around you. All electronic devices other than a calculator must be shut off and put away during examinations.

Drop Date

It is responsibility of the student to drop the course on time to avoid getting a 'W' on your records. Check official calendar for Drop Date.

Disclaimer

This syllabus should be taken as a fairly reliable guide for the course content and policies. However, you cannot claim any right from it and, in particular, I reserve the right to change due dates or the methods of assessment. Official announcements will ALWAYS be those made in class.

²Note that when asking for a question to be re-graded, the entire assignment/exam will be subject to re-grading.