

Math 2200, Spring 2013

Instructor: Ivan Horozov, Cupples I, Room 201, horozov@math.wustl.edu

Office hours: MW 2-3pm, Cupples I, Room 201

Section 1: Monday-Wednesday-Friday, 11am-12pm, Seigle 06

Section 2: Monday-Wednesday-Friday, 1pm-2pm, Busch 100

Office-hours Section 1 & 2: Monday-Wednesday, 2:00-3:00pm, Room 201 Cupples I

Math 2200 is an introductory course for probability and statistics. We shall study ways of taking samples, representing the raw data collected, making estimates and interpreting the relations between different variables within a population and between different samples.

In particular, we shall cover discrete and continuous random variables, mean and variance, hypothesis testing and confidence limits, nonparametric methods, analysis of variance (ANOVA) and (multiple) regression.

This is not a course for Math majors or minors. If you've taken Math 132 or Math 233 then you should seriously consider taking Math 3200 instead. In this course, math formulas will often be presented in class without proofs. (If however, you are curious, I shall be happy to derive them for you during office-hours.)

The prerequisite for this course is Math 131 or equivalent.

Before you come to class, please study the section of the book to be covered and finish the homework assigned in the previous lecture. Please feel free to walk in and ask any doubts during my office-hours. (As Lao Tze said, "To realize that you do not understand is a virtue; Not to realize that you do not understand is a defect.")

Textbook: We shall be covering most of the material in the textbook: DeVeaux, Velleman, and Bock - Stats: Data and Models (3rd edition)

Computing:

For computation, we shall use the Texas Instruments calculators TI-83, TI-84 or TI-89. However knowledge of using any statistical package (apart from the firmware in your TI calculators) is not required.

Homework: There will be weekly homework, due on Wednesdays. It will be graded and returned the following Wednesday. **Exams:** There will be 3 (two-hour) evening mid-term exams and a (two-hour) final exam. The quizzes will consist of 5-6 multiple-choice questions, while the exams will have 20-25 multiple-choice questions. All questions in the quizzes and roughly half of those in exams will be based on your homework problem. Exams Schedule

Mid-term Exams: February 6, March 6, April 10, 7 - 9 pm

Final Exam: May 2, 3:30pm-5:30pm

Your examination room assignment will be available on the day of the exam at: www.math.wustl.edu/seatlookup/ .

Exam Preparation: The simplest way of getting a good grade is to be regular with your homework.

I may not present every topic in a chapter, but you are expected to read the complete chapter and be prepared for questions from them.

A good source of practice problems can be found by looking up the old exam papers for this course at <http://www.math.wustl.edu/oldexams/>.

If you have any doubts, please feel free to meet me in my office during my office hours. During Exams

You must bring your Washington University Photo ID Card to exams. The proctors will be checking that you have your ID and may ask to take a look at it. You should bring several pencils with erasers. Do not bring any "scratch paper." There should be enough space for your work on the exam booklet. You should also bring a TI-83, 84 or 89 series scientific calculator with you. You may bring a single 3x5 note card with any notes (on both sides) that you like. All other electronic devices (cell phones etc) should be turned off during exams. A cell phone call (or text messaging, tweets etc) during an exam may be considered as an academic integrity violation. If there is some special need to have your phone on then notify the proctor before the exam begins. To read the full Riot Act, please see Academic Integrity Policy.

After Exams: You will mark your answers to multiple choice questions on a data card which will be machine-graded and the results posted online, usually the next day. When they're ready, you can check exam results online at <http://www.math.wustl.edu/mathlookup/>.

After the exam is graded, you will have until 4 p.m. the following Monday to check with me if you think there was some problem about mismarking your answer card or other such mechanical issue.

Exam Absences: The exam dates were set by the University well in advance, and you are expected to attend them at their scheduled time. If you are away due to a university sporting event, then you may arrange for your coach to administer the exam. Excused absences may be granted in case of severe illness, bereavement or other extraordinary circumstances. Approval for absences must be obtained, preferably in advance, from Prof. Blake Thornton (314-935-6301).

An unexcused absence from any exam receives a score of 0.

Grading: Your course grades will be based on the homework and 4 exams.

Homework	15%
Exam 1	15%
Exam 2	20%
Exam 3	20%
Final Exam	30%

If you are taking this course for Pass/Fail then you must score at least a D to pass.

Please note: The syllabus and schedule may change at a later time, and it is your responsibility to keep up to date with it.