SYLLABUS FOR STATISTICS 13 - LECTURE 1 FALL QUARTER 2013

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WWW: http://www.stat.ucla.edu/~nchristo/statistics13

Office hours: TR: 17:00 - 19:00, W: 14:00 -16:00

| Lecture | Day | Class Time | Location |
|-----------|-----|---------------|----------|
| Lecture 1 | TR | 09:30 - 10:45 | MS 4000A |

| Section | Day | Discussion | Location |
|---------|-----------|---------------|----------|
| 1A | Wednesday | 12:00 - 12:50 | MS 5128 |
| 1B | Wednesday | 13:00 - 13:50 | MS 5128 |
| 1C | Wednesday | 14:00 - 14:50 | MS 5128 |
| 1D | Wednesday | 15:00 - 15:50 | MS 5128 |

| Section | Day | Lab | Location |
|---------|--------|---------------|--------------|
| 1A | Monday | 12:00 - 12:50 | BOELTER 9413 |
| 1B | Monday | 13:00 - 13:50 | BOELTER 9413 |
| 1C | Monday | 14:00 - 14:50 | BOELTER 9413 |
| 1D | Monday | 15:00 - 15:50 | BOELTER 9413 |

COURSE RESOURCES:

Textbook (optional): Myra L. Samuels, Jeffrey A. Witmer, Andrew A. Schaffner, Statistics for the Life Sciences, Fourth Edition, Prentice Hall, 2012.

Probability and Statistics EBook (freely available at): http://wiki.stat.ucla.edu/socr/index.php/EBook.

Software: R (can be downloaded freely from http://cran.stat.ucla.edu), and Statistics Online Computational Resource (SOCR), freely available at: http://www.socr.ucla.edu.

COURSE TOPICS

- 1. Data analysis. Chapters 2.
- 2. Probability Chapters 3.
- 3. Random variables.

Chapter 3.

4. Discrete probability distributions.

Chapter 3.

5. Continuous probability distributions.

Chapter 4.

6. Sampling distributions.

Chapter 5.

7. Estimation - Confidence intervals.

Chapter 6.

8. Hypothesis testing.

Chapter 7.

9. Simple linear regression and correlation.

Chapters 12.

10. Analysis of variance.

COURSE POLICIES:

Please remember to turn off your cell phones. The use of laptop computers and other electronic devices will not be permitted in class. You are expected to adhere to the honor code and code of conduct. If you have a disability that will require academic accommodation, please contact the UCLA Office for Students with Disabilities (OSD).

ACADEMIC INTEGRITY:

As a student and member of the University community, you are here to get an education and are, therefore, expected to demonstrate integrity in your academic endeavors. All students must uphold University of California Standards of Student Conduct as administered by the Office of the Dean of Students. Students are subject to disciplinary action for several types of misconduct, including but not limited to: cheating, multiple submissions, plagiarism, prohibited collaboration, facilitating academic dishonesty, or knowingly furnishing false information. You may have assignments or projects in which you work with a partner or with a group. For example, you are welcome, and even encouraged, to work with others to solve homework problems. Even though you are working together, the assignment you submit for a grade must be in your own words, unless you receive specific instructions to the contrary. For more information about academic integrity, please go to http://www.deanofstudents.ucla.edu/.

COURSE GRADES:

There will be three (3) exams (cumulative) and homework or labs that will be assigned every week. Please staple your homework or labs and write your name and the discussion section on them. Late homework or labs will not be accepted and make-up exams will not be given. Students must attend all three exams and must complete all homework and labs. Being in class on time and fully participating is important for your understanding of the material and therefore for your success in the course. You are required to attend all the lectures. Attendance will be taken at random times during the course and it will count for 5% of your grade. The dates/times for the exams are shown below.

The course grade will be based on the calculation

 $Final\ score = 0.05 \times Attendance + 0.10 \times Homework/Labs + 0.25 \times Exam1 + 0.25 \times Exam2 + 0.35 \times Exam3 + 0.25 \times Exam2 + 0.35 \times Exam3 + 0.25 \times$

COMMUNICATION:

In-class handouts can be accessed at http://www.stat.ucla.edu/~nchristo/statistics13. Please keep a current e-mail address with my.UCLA.edu in order to receive class announcements and reminders.

IMPORTANT DATES:

First lecture: 26 September. Last lecture: 03 December.

Holidays: 11 November (Veterans Day), 28-29 November (Thanksgiving).

EXAMS:

Exam 1: Wednesday, 23 October, 17:00 - 18:50. Exam 2: Friday, 15 November, 17:00 - 18:50. Exam 3: Thursday, 05 December, 09:00 - 11:00.

Good Luck!!!