Instructor: Nicolas Christou  
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e-mail: nchristo@stat.ucla.edu  
WWW: http://www.stat.ucla.edu/~nchristo/statistics100B  
Office hours: MTWR 16:00 - 19:00

<table>
<thead>
<tr>
<th>Lecture</th>
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<tbody>
<tr>
<td>Lecture 1</td>
<td>TR</td>
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RESOURCES:

Probability and Statistics EBook (freely available at):


COURSE PREREQUISITES:
Statistics 100A, or Mathematics 170A, or by instructor’s consent.

COURSE TOPICS
1. The distribution of a function of a random variable - Chapter 2.
3. Moments, and moment generating functions - Chapter 4.
4. Moments of linear combinations of random variables and covariance between two random variables - Chapter 4.
5. Chebyshev’s inequality - Chapter 4.
6. The Central Limit Theorem and the Law of Large Numbers. The distribution of the sample mean and sum of $n$ observations - Chapter 5.
7. The Chi-Square distribution and the distribution of the sample variance. The $F$ and $t$ distributions - Chapter 6.
9. Confidence intervals for means and proportions - Chapters 7 and 8.
11. Regression and correlation - Chapter 14.
COURSE POLICIES:
Please remember to turn off cell phones. The use of laptop computers 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).

COURSE GRADES:
There will be one midterm exam, a final cumulative exam, and homework/labs that will be assigned every week. Please write your name and staple your homework and labs. Late homeworks or labs will not be accepted and make-up exams will not be given. Being in class on time and fully participating is important for your understanding of the material and therefore for your success in the course. The tentative dates for the exams are shown below.

The course grade will be based on the calculation

\[ \text{Final score} = 0.20 \times \text{Homework/Labs} + 0.40 \times \text{Midterm} + 0.40 \times \text{Final}. \]

Communication:
In-class handouts can be accessed at http://www.stat.ucla.edu/~nchristo/statistics100B. Please keep a current e-mail address with my.UCLA.edu in order to receive class announcements and reminders.

Important dates:
First day of classes: 07 August.
Last day of classes: 13 September.

Exams:
Exam 1: Week 4.
Exam 2: Week 6.

Good Luck !!!