Instructor: Nicolas Christou  
Office: 8931 Math Sciences Bldg.  
Telephone: (310) 206-4420  
e-mail: nchristo@stat.ucla.edu  
WWW: http://www.stat.ucla.edu/~nchristo/statistics100B  
Office hours: MW 17:00 - 19:00, T 16:00 - 18:00

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Day</th>
<th>Class Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>MW</td>
<td>12:00 - 13:30</td>
<td>Botany 325</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Discussion Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>T</td>
<td>11:00 - 11:50</td>
<td>FRANZ 1260</td>
</tr>
</tbody>
</table>


**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 GRADES:
There will be three (3) exams and homeworks or labs that will be assigned every week. Please staple your homeworks and labs and write your name on them. Late homeworks 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. You are required to attend all the lectures. Attendance will be taken at random times during the quarter and it will count for 20% of your grade. The course grade will be based on the calculation

\[ \text{Final score} = 0.10 \times \text{Homework} + 0.10 \times \text{Labs} + 0.20 \times \text{Attendance} + 0.15 \times \text{Exam}1 + 0.15 \times \text{Exam}2 + 0.30 \times \text{Exam}3. \]

Important dates:
First day of classes: 07 January 2008.
Last day of classes: 14 March.
Holidays: 21 January (Martin Luther King, Jr.), 18 February (Presidents Day).

Exams:
Exam 1: Week 4.
Exam 2: Week 7.
Exam 3: Week 10.

Good Luck !!!