

**SYLLABUS FOR STATISTICS 12 - LECTURE 1
INTRODUCTION TO STATISTICAL METHODS
FOR GEOGRAPHY AND ENVIRONMENTAL STUDIES
SPRING QUARTER 2016**

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/statistics12>
Office hours: MTWRF 15:00 - 17:00

Lecture	Day	Class Time	Location
Lecture 1	MWF	14:00 - 14:50	GEOLOGY 3656

Section	Day	Discussion	Location
1A	Wednesday	12:00 - 12:50	MS 5128
1B	Wednesday	13:00 - 13:50	MS 5128

Section	Day	Lab	Location
1A	Monday	12:00 - 12:50	BOELTER 9413
1B	Monday	13:00 - 13:50	BOELTER 9413

COURSE RESOURCES:

Textbook (optional): No textbook.
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>
RStudio, can be downloaded freely from <https://www.rstudio.com>.
Statistics Online Computational Resource (SOCR), freely available at: <http://www.socr.ucla.edu>.

COURSE TOPICS

1. Data analysis.
2. Probability
3. Random variables.
4. Discrete probability distributions.
5. Continuous probability distributions.
6. Sampling distributions.
7. Confidence intervals.
8. Hypothesis testing.
9. Simple linear regression and correlation.
10. Multiple regression.

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 two midterm exams, a final exam, two lab quizzes, 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. The dates/times for the exams are shown below.

The course grade will be based on the calculation

$$\begin{aligned} \textit{Final score} &= 0.10 \times \textit{Homework/Labs} + 0.10 \times \textit{Quizzes} \\ &+ 0.20 \times \textit{Midterm1} + 0.25 \times \textit{Midterm2} + 0.35 \times \textit{FinalExam} \end{aligned}$$

COMMUNICATION:

In-class handouts can be accessed at <http://www.stat.ucla.edu/~nchristo/statistics12>.

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: 28 March.

Holidays: 30 May (Memorial Day).

Last day of classes: 03 June.

Exams:

Midterm 1: Tuesday, 19 April, 17:00 - 19:00.

Midterm 2: Thursday, 19 May, 17:00 - 19:00.

Final exam: Monday, 06 June, 11:30 - 14:30.

Good Luck !!!