

STAT 410/510: Regression Analysis SYLLABUS

FALL 2015//SEC:01//CLASS#:6745/6746//CSULB

PROFESSOR: Dr. Kagba Suaray//ksuaray@csulb.edu//562.985-4724//FO3-216

LECTURE: TTH 4-5:15 @ LA5-343

OFFICE HOURS: T&TH 1-2pm, 4:55-5:25pm or by appointment.

TEXT: **Applied Linear Regression Models** by Kutner, Nachtsheim, Neter, Li

ISBN-10: **0073014664**

We will cover parts of Chapters 1-11, 13 and 14

GRADING: Homework Assignments	12%
Quizzes (x3)	18%
Midterms(x2)	50%
Project	20%

The course will be graded on a curve, and the highest possible cut-offs will be as follows:
A:88%, B:76%, C:64%, D: 52%.

Quizzes will be given at the beginning of lecture on Th 9/17, Tu 10/27, and Tu 11/24.
See the schedule below for dates of exams.

In this course, you will study data analysis using regression methods, with a balance between statistical theory and practice. You will be expected to develop a broad based understanding of the fundamentals of regression analysis.

Throughout the semester, we will be using the statistical package called SAS to perform the techniques we learn. The package can be downloaded free of charge at

http://www.csulb.edu/divisions/aa/academic_technology/ats/software/

The following text is highly recommended to assist you in becoming familiar with this software:

- **SAS System for Regression (Third Edition) (Wiley Series in Probability and Statistics)** by Rudolf J. Freund and Ramon C. Littell

There will be opportunities for extra credit percolated throughout the course.

Stay posted to Beachboard for more SAS resources, assignments, and other course information.

SCHEDULE

Week	Section/Date	Topics
1	1.1-3	Introduction/PreTest
2-4	1.4-2.7,9,10	Simple Linear Regression
5a	5.1-8	Matrix Algebra and Random Vectors
5b-6a	5.9-6.5	Multiple Linear Regression (MLR)
6b	10/1/13	MIDTERM I
7	6.6-7.5	MLR ctd.
8-9b	14.1-5,13	Generalized Linear Models
9	4.4,8.1-7	Model Specification
10-11	7.6 and 3,10,11,14.7	Model Checking
12-13	9,14.6	Model Selection
14a	13	Nonlinear Regression Models
15	11/24-26/13	THANKSGIVING HOLIDAY
16a	12/1/13	MIDTERM II
16b-17a		Review/Projects
18	Th 12/15/13 @5:00pm	PRESENTATIONS/PROJECTS DUE

There will be no make-up tests except for medical reasons with a Doctor's written proof.

If you have a university verified disability, it is your responsibility to inform the instructor in advance of any special consideration that you require for exams.

If you received permission to register for a closed class section, only you can enroll in the course. It is the student's responsibility to complete the registration process before the dates indicated in the *Schedule of Classes*.

You are expected to be familiar with the “*General Regulations and Procedures*” in the catalog. University drop and withdrawal policies shall be strictly enforced. See http://www.csulb.edu/depts/enrollment/dates/registration_spring.html

Last day to add: 9/21. Last Day to drop without a “W”: 9/7; without dean's signature: 11/13.