

Data Analysis for the Behavioral and Social Sciences II: E10.2002

Spring, 2009

Instructor:

Instructor: Sharon L. Weinberg
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Office: Kimball Hall, 246 Greene Street, 509W
Office Hours: Tuesdays, 10 am to noon and by appointment

Class Meeting Time/Room:

Mondays, 2:00 - 4:45 pm, Room TBD

Computer Lab:

As a student in this class you have priority access to the computer labs which means that you may enter the lab at any time by swiping your ID. The regular lab consultants often do not know SPSS, but they can answer system level questions about accessing SPSS, and saving, printing, and opening files.

Course Goals and Orientation:

This course introduces students to the array of inferential techniques used by researchers to draw conclusions about the population(s) from which their sample data have been selected. To provide hands-on experience with the various methods covered, students are expected to analyze real data throughout the course using the latest version of SPSS. The particular topics covered include *t*-tests on means, one- and two-way analysis of variance, simple and multiple regression, and non-parametric techniques. The orientation of the course is conceptual, not mathematical. Accordingly, the course is not appropriate for students seeking to learn the mathematical theory underlying the statistical techniques covered. The course is intended for doctoral students, but some masters' students may enroll with the permission of the instructor.

Prerequisites: E10.2001 or permission of the instructor.

Website: The course uses Blackboard for posting handouts, readings, homework assignments, project assignments, and general information.

Required Text: *Statistics Using SPSS: An Integrative Approach* by Weinberg, S. L. & Abramowitz, S. A. (2008). Cambridge University Press. This book is available in the NYU Book Store.

Course Requirements & Grading:

Homework: Practicing what has been covered in class is essential to learning statistics. Homework will be assigned, collected, and graded each week. All students are responsible for completing all homework assignments on time and raising related questions in class.

Project: Students are expected to complete a project that requires the selection of appropriate statistical methods to answer a series of questions based on a given data set made available by the instructor and to interpret and communicate findings in a journal-like format.

Exams: There will be one midterm and one cumulative final.

Grading:

15% Homework
 25% Midterm Exam
 25% Final Exam
 35% Project

Syllabus:

<i>E10.2002 Syllabus – Statistics for the Behavioral and Social Sciences II</i>		
<i>Month</i>	<i>Day</i>	<i>Topic</i>
January	26	Review E10.2001 final exam Tests of inference on means: <i>t</i> -tests [Chapter 11]
February	2	Tests of inference on means: <i>one-way</i> ANOVA [Chapter 12]
	9	Multiple comparison procedures for <i>one-</i> <i>way</i> ANOVA [Chapter 12]
	16	NO CLASS – Presidents’ Day
	23	Tests of inference on means: <i>two-way</i> ANOVA [Chapter 13]
March	2	Interaction and simple effects; <i>post hoc</i> tests [Chapter 13]
	9	Simple regression in the inferential context [Chapter 14]
	16	NO CLASS -- SPRING BREAK
	23	MIDTERM: Chapters 11 - 13
	30	Review Midterm Simple regression in the inferential context continued [Chapter 14]
April	06	Multiple regression [Chapter 15]
	13	Multiple regression cont’d [Chapter 15]
	20	Nonparametric methods [Chapter 16]
	27	Nonparametric methods cont’d [Chapter 16]
May	04	LAST CLASS; PROJECT DUE. Wrap up and review for final exam
	11	Final Exam -- Includes all material covered during the semester