

E10.2002: STATISTICS FOR THE BEHAVIORAL AND SOCIAL SCIENCES II
NEW YORK UNIVERSITY
SPRING 2008

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Lecture:	Monday afternoons, 2:00 – 4:30 p.m. 194 Mercer Room 206	FAX:	(212) 995-4564
		Office hours:	Mondays 12 – 2 p.m. or by appointment

COURSE DESCRIPTION This is the second semester of a two-semester sequence designed to introduce students to the principles of statistics, the tools of data analysis, and the use of statistical software in practice (SPSS). In this semester, we focus on tests of inference. Emphasis is on the acquisition of conceptual understanding over computational skill. Particular topics covered are listed in the course outline below.

PREREQUISITES E10.2001 (Statistics for the Behavioral and Social Sciences I) or the equivalent. You may be adequately prepared if you have taken E10.2085 (Basic Statistics I) – please see Prof. Corcoran if you have concerns regarding your preparation for this course.

TEXTBOOKS AND READINGS The textbook that was used for E10.2001 (the prerequisite to this course), *Data Analysis for the Behavioral Sciences Using SPSS* by Weinberg and Abramowitz (Cambridge University Press 2002) may be used again this semester.

However, for those of you who do not have a copy of that book, please purchase the *second edition*, which has a different title—*Statistics Using SPSS: An Integrative Approach (2nd ed)*, and is due to be published in January 2008. According to the publisher, the second edition will be available at the NYU Bookstore in time for class. If it is not, copies of the chapters will be made available on Blackboard until such time as the second edition is available for sale at the Bookstore.

You may also find the following (optional) text useful: *SPSS Survival Manual* by Julie Pallant, Open University Press, 2007.

BLACKBOARD All materials pertaining to this course (lecture notes, supplemental readings, problem sets, handouts, etc.) will be made available via Blackboard, which can be accessed through NYUHome (home.nyu.edu). Enrollment in the course should automatically give you access to the Blackboard site for the class. Check in with Blackboard frequently for new announcements, lecture notes, readings, and the like.

Lecture notes will be posted (as PDF files) on Blackboard at least 3-4 days in advance of each lecture (please print these and bring them to class).

**COMPUTER LAB
AND SPSS**

As a student you should have access to the computer labs by swiping your ID. Lab attendants typically do not know SPSS, but they can answer system level questions about accessing SPSS, and saving, printing, and opening files. The Third Avenue North lab (75 Third Avenue, Level C3) has two statistical consultants available during the day who may be able to answer more involved questions about SPSS.

The NYU computer store offers SPSS at a discount to NYU students (the “Grad Pack”). Version 16 for Windows and Mac is currently being offered for \$200 (yes, that’s the discounted price!). I will be using Version 15 in class; the book may refer to an earlier version. For most purposes, you will notice few differences between these versions.

**COURSE
REQUIREMENTS**

Your grade for this course will be determined as follows: Eight problem sets (comprising 15% of your grade, each weighted equally), a statistical project (35%), and the midterm and final exams (25% each).

The problem sets are designed to give you practice with SPSS and the analytical tools introduced in class, and thus are critical to your success in the course. These problem sets will be assigned, collected, and graded each week. Late assignments will NOT be accepted, but you will be allowed to drop your lowest score at the end of the semester.

The statistical project will provide you an opportunity to apply your knowledge to a real-life dataset in order to address some meaningful research questions. You will analyze data using SPSS, interpret your results, and communicate your findings in writing. (More details on the project will be provided at a later date).

The midterm and final exams will each cover roughly half the materials in the course. All exams are cumulative, in the sense that they will require knowledge of skills acquired earlier in the course. You will be permitted to use one (8.5 x 11”) sheet of statistical formulas during the exams, and a calculator.

**MISC.
POLICIES**

- 1) Policies of NYU and the Steinhardt School of Culture, Education, and Human Development pertaining to academic integrity will be *strictly enforced* in this class. You are encouraged to study and work together on homework assignments, but all work submitted must be that of the individual student.
- 2) Please make an effort to be on time (I will do the same) and please turn off your phone.
- 3) Please see me immediately if you have any conflicts with scheduled assignments and/or exams, or if you anticipate being absent due to religious observances.
- 4) If you wish to withdraw from this course, please do so formally with the University Registrar. If you withdraw without authorization, you may receive an “F” for the course. *Note Monday February 11th is the last day for graduate and undergraduate students to withdraw without receiving a “W” on transcripts.*
- 5) Any student attending NYU who needs an accommodation due to a chronic, psychological, visual, mobility and/or learning disability, or is Deaf or Hard of Hearing, should register with the Moses Center for Students with Disabilities at 212-998-4980, 240 Greene Street (www.nyu.edu/csd).

COURSE OUTLINE

Monday January 28	E10.2001 in a Day: Review of introductory descriptive and inferential statistics (Chapters 1-9) Hypothesis testing – introduction (Chapter 10)	
Monday February 4	Hypothesis testing – t – tests (Chapter 11)	Problem Set 1 due
Monday February 11	One-way ANOVA (Chapter 12)	Problem Set 2 due
Monday February 18	NO CLASS – PRESIDENTS DAY	
Monday February 25	Two-way ANOVA (Chapter 13)	Problem Set 3 due
Monday March 3	Interaction and simple effects; <i>post-hoc</i> tests (Chapter 13) Review for midterm exam	Problem Set 4 due
Monday March 10	MIDTERM EXAM (Chapters 10 – 13)	
Monday March 17	NO CLASS – SPRING BREAK	
Monday March 24	Return and review midterm exams [AERA Conference]	
Monday March 31	Simple regression in the inferential context (Chapter 14)	Problem Set 5 due
Monday April 7	Simple regression in the inferential context (Chapter 14)	Problem Set 6 due
Monday April 14	Multiple regression (Chapter 15)	Problem Set 7 due
Monday April 21	Multiple regression (Chapter 15)	Problem Set 8 due
Monday April 28	Non-parametric tests of inference (Chapter 16)	Problem Set 9 due
Monday May 5	Last Day of Classes Review for final exam	Project due
Monday May 12	FINAL EXAM—2:00 – 3:50 p.m. (Emphasis on Chapters 14 – 16)	