

DEPT. OF HUMANITIES AND THE SOCIAL SCIENCES, SCHOOL OF EDUCATION, NEW YORK UNIVERSITY
BASIC STATISTICS II: E10.1086.001
FALL 2005 SYLLABUS
WEDNESDAYS, 6:45 PM – 9:15 PM
ROOM: 194 MERCER STREET, ROOM 203

Instructor: Danny Chan
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Office Hours: Wednesday 5:30 – 6:30 PM, 3rd Floor of Kimball Hall, 246 Greene Street

Course Description: This is the second semester of a two-semester sequence designed to prepare students to use statistics for data analysis. The course will make use of SPSS for Windows, a statistical computer software package for the social sciences. The prerequisite for this class is E10.1085, Basic Statistics I, or its equivalent, which serves as a foundation, covering methods for displaying and describing data. This course will build on this foundation and will cover particular methods of statistical inference to test hypotheses about means, variances, correlations, and proportions.

Textbook: Data Analysis for the Behavioral Sciences Using SPSS by Sharon Weinberg and Sarah Abramowitz, \$55. (*In addition, SPSS 101 and Stat Tables 101 will be provided in PDF format*)

Computer lab: As a student in this class, you have priority access to the computer labs. The regular lab consultants often do not know SPSS, but they can answer system level questions about accessing SPSS, saving, printing, and opening files. At the ITS Third Avenue North Lab (75 Third Avenue, Level C3), there are two statistics consultants during the day.

E-mail & Blackboard: You should obtain an email account and check it at least once weekly. E-mail is the most efficient way to communicate with me. We will make use of Blackboard 6 in this class. You must activate your HOME account here at NYU before you can access Blackboard.

Purchasing SPSS: The NYU Computer Store offers SPSS at a discount to NYU students. You may purchase version 11/12/13 (\$200 plus tax). We will be using version 11/12/13 in class and in the labs.

Grading:

Home work: Practicing what has been covered in class is essential to learning statistics. Homework will be assigned, collected, and graded each week. It is your responsibility to complete all homework assignments on time and to raise related questions in class. Late homework is subject to penalty and will only be accepted with prior notification and proper explanation. You may email/fax me the homework assignment if you cannot be in class for any reason.

Project: The project will provide you an opportunity to apply your knowledge in a meaningful way. You will analyze data using SPSS, interpret your results, and communicate your findings.

Exams: There will be one midterm and one final exam during the semester. Each exam will cover roughly half of the materials in the course. All exams are cumulative, in the sense that some questions might require previously learned materials. A formula sheet will be provided for the exams.

Attendance: Unexcused absences will result in a reduction of your course grade. Please email me before class if a special situation arises.

Grade composition: Homework: 10% Project: 30% Midterm: 30% Final Exam: 30%

Tentative Course Outline – Fall 2005

Date	Topic Discussed	Work Due	Notes
9/7	Review Descriptive Statistics, Blackboard 6, SPSS		
9/14	SPSS, Binomial Distribution, Normal Distribution (Ch. 8)	Homework 1	
9/21	Sampling, Central Limit Theorem (Ch. 9)	Homework 2	
9/28	Interval Estimation, Hypothesis Testing (Ch. 10)	Homework 3	
10/5	T-distribution, One Sample t-test (Ch. 11)	Homework 4	
10/12	Review for Midterm	Homework 5	
10/19	MIDTERM EXAM Includes all materials through 10/12		Project will be posted on Blackboard
10/26	Paired Samples t-test, Independent Samples t-test (Ch. 11)		
11/2	One-Way ANOVA (Ch. 12)	Homework 6	
11/9	Chi-Square Goodness-of-Fit Test, Chi-Square Test of Independence (Ch. 16)	Homework 7	
11/16	Correlation, Simple Linear Regression (Ch. 14)	Homework 8	
11/23	Legislative Day Classes will run on a Monday schedule.		No Class!
11/30	Correlation, Simple Linear Regression (Ch. 14)	Homework 9	
12/7	Two-Way ANOVA (Ch. 13)	Project	
12/14	Review for Final Exam	Homework 10	
12/21	FINAL EXAM Includes all materials from 10/26 to 12/14		