

**DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES IN THE PROFESSIONS, NYU STEINHARDT**  
**BASIC STATISTICS II: RESCH-GE 2086 - 001**  
**TENTATIVE FALL 2013 SYLLABUS**  
**TUESDAYS, 6:20 PM – 9:00 PM**  
**GCASL BUILDING, ROOM 375**

**Instructor:** Danny Chan  
**E-mail:** danny.chan@nyu.edu  
**Office Hours:** Tuesday 5:10 – 6:10 PM, 3<sup>rd</sup> Floor of Kimball Hall, 246 Greene Street  
<http://dannychan.clickbook.net>

**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, a statistical computer software package for the social sciences. The prerequisite for this class is RESCH-GE 2085, 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:** Statistics Using SPSS: An Integrative Approach (2<sup>nd</sup> edition) by Sharon Weinberg and Sarah Abramowitz, \$76 (*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.

**E-mail & NYU Classes:** 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 NYU Classes in this class. You must activate your HOME account here at NYU before you can access NYU Classes.

**SPSS:** We will be using versions 11-21 in class and in the labs. You should use the graduate pack version of the software (instead of the student version). The NYU Computer Store offers SPSS license at a discount to NYU students (SPSS GradPack 21 Win/Mac license \$87.50). You can rent the software at <http://www.onthehub.com/spss/> or download a 14-day trial version of SPSS at [http://www14.software.ibm.com/download/data/web/en\\_US/trialprograms/W110742E06714B29.html](http://www14.software.ibm.com/download/data/web/en_US/trialprograms/W110742E06714B29.html)

**Grading:**

**Homework:** 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. 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 focus on roughly half of the materials in the course, but the final exam is cumulative. 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: % Project: % Midterm: % Final Exam: %

## Tentative Course Outline – Fall 2013

Date	Topic Discussed	Work Due	Notes
9/3	Review Descriptive Statistics, NYU Classes, SPSS		
9/10	SPSS, Binomial Distribution, Normal Distribution (Ch. 8)	Homework 1	
9/17	Sampling, Central Limit Theorem (Ch. 9)	Homework 2	
9/24	Interval Estimation, Hypothesis Testing (Ch. 10)	Homework 3	
10/1	T-distribution, One Sample t-test (Ch. 11)	Homework 4	
10/8	Review for Midterm	Homework 5	
10/15	<b>FALL RECESS</b>		<b>NO STATISTICS CLASS!</b>
10/22	<b>MIDTERM EXAM</b> Includes all materials through 10/8		Project will be posted on NYU Classes
10/29	Paired Samples t-test, Independent Samples t-test (Ch. 11)		
11/5	One-Way ANOVA (Ch. 12)	Homework 6	
11/12	Two-Way ANOVA (Ch. 13)	Homework 7	
11/19	Correlation, Simple Linear Regression (Ch. 14)	Homework 8	
11/26	Chi-Square Goodness-of-Fit Test, Chi-Square Test of Independence (Ch. 16)	Homework 9	
12/3	Additional topics and catch up	Homework 10	
12/10	Review for Final Exam	<b>Project</b>	
12/17	<b>FINAL EXAM</b> Includes all materials from 10/29 to 12/10		