

RUTGERS UNIVERSITY
Bloustein School of Planning and Public Policy

Methods of Planning Analysis I

Fall 2006
970:515:01

Wednesdays, 6:10-8:40 pm.
CSQ 369

Professor: Radha Jagannathan
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Office Hours: Wednesdays 1:30 – 3:00 pm.
 Thursdays 1:30 – 3:00 pm.

TA: Lena Raneiri
CSB Room
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Office Hours: Monday
 Tuesday

Course Description and Objectives:

The purpose of this course is to develop skills in statistical analysis and computer techniques. Particular focus will be on applied descriptive and inferential statistics, including cross-tabulations and correlation and regression analysis, and on computer tools useful in urban planning and management. The course will consist of lectures, weekly readings, problem sets and examinations. In addition, we will have two formal lab sessions and learn to use the statistical package SPSS for Windows.

The course has three objectives: (1) to demonstrate the use of applied statistics for planning and policy applications, (2) to equip students with skills to analyze and interpret data using SPSS, and (3) to help students read professional urban planning literature with an appreciation for both its substantive contribution and use of technical (statistical) tools.

This course is intensive and will require serious attention. You should plan on attending every class session – this is particularly important for a methods course covering a vast amount of material and meeting only once a week. Both myself and Kristen will be available to help. We will hold statistical as well as computer review sessions.

Requirements:

- ❖ Regular attendance and participation in class
- ❖ Completing three problem sets. Doing problem sets is the primary way of really understanding the material. Students are encouraged to work in groups on the problem sets, but solutions are to be written independently.
- ❖ A midterm exam and a cumulative final exam.

Grading:

The final grade will be computed as follows:

3 Problem Sets (15 percent each)	45 percent
Midterm Exam	25 percent
Final Exam	30 percent

It is important that exams be taken as scheduled. Please notify me if, for medical or other valid reasons, it is impossible for you to meet an examination or other deadline.

Text Book:

Healey, Joseph F. (2003). *Statistics: A Tool for Social Research*, Sixth Edition. New York: Wadsworth.

The text is available at the Rutgers University Bookstore at Ferren Mall.

Placement out of Methods I:

Students with previous background in statistics may place out of this required course by examination.

Schedule of Classes

6 Sep 2006	Introduction to Course and Placement Exam	
Part I – Descriptive Statistics		
13 Sep 2006	<ul style="list-style-type: none"> • Introduction to Statistics • Basic Descriptive Statistics 	Ch. 1 and 2
20 Sep 2006	<ul style="list-style-type: none"> • Measures of Central Tendency • Measures of Dispersion 	Ch. 3 and 4
27 Sep 2006	<ul style="list-style-type: none"> • The Normal Curve • <i>Problem Set 1 distributed</i> 	Ch. 5
4 Oct 2006	<ul style="list-style-type: none"> • SPSS Lab I 	<i>Meet in computer lab</i>
Part II – Inferential Statistics		
11 Oct 2006 <i>PS #1 Due</i>	<ul style="list-style-type: none"> • Sampling and Sampling Distribution • Estimation Procedures 	Ch. 6 and 7
18 Oct 2006	<ul style="list-style-type: none"> • Estimation Procedures (contd..) • One Sample Hypothesis Testing 	Ch. 8
25 Oct 2006	Midterm Examination	
1 Nov 2006	<ul style="list-style-type: none"> • Two Sample Hypothesis Testing • Hypothesis Testing: Anova • Hypothesis Testing: Chi Square • <i>Problem Set 2 distributed</i> 	Ch.9, 10 and 11
Part III – Measures of Association		
8 Nov 2006	<ul style="list-style-type: none"> • SPSS Lab II • Bivariate Association: Intro & Basics • Measures of Association:Nominal Variables 	Ch. 12 and 13
15 Nov 2006 <i>PS #2 Due</i>	<ul style="list-style-type: none"> • Measures of Association:Ordinal Variables • Measures of Association:Interval Variables 	Ch. 14 and 15
22 Nov 2006	<ul style="list-style-type: none"> • NO CLASS – THANKSGIVING SCHEDULE 	
29 Nov 2006	<ul style="list-style-type: none"> • Using SPSS for Measures of Association (Not in Computer Lab) 	Ch 16
Part IV – Multivariate Techniques		
6 Dec 2006	<ul style="list-style-type: none"> • Elaborating Bivariate Tables • <i>Problem Set 3 distributed</i> • Multiple Regression 	Ch. 17

13 Dec 2006 Last Class – Catch up and Review

20 Dec 2006 **Final Exam (Cumulative)**

PS #3 Due
