

UP 116: Analytical Planning Research Methods
Spring 2006
Section A

Department of Urban and Regional Planning
College of Fine and Applied Arts
University of Illinois at Urbana-Champaign

Class Meetings: Lectures: Tuesday and Thursday, 9:00 am- 10:20 am
Room 225 Temple Buell Hall

Instructor: Todd BenDor, PhD Candidate
Department of Urban and Regional Planning
111 Temple Buell Hall

Office Hours: Tuesday, 10:30 am – 11:30 am
Thursday, 10:30 am – 11:30 am
Room 20, Temple Buell Hall
(Please knock on door, if locked)
By appointment
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Teaching Assistant: Peter McAvoy
pmcavoy2@uiuc.edu

Program Staff: Glenda Fisher, Program Secretary
Jane Terry, Admissions and Records Officer
111 Temple Buell Hall
Monday - Friday 8:30 am - 12:00 pm and 1:00 pm - 5:00 pm
Phone: 333-3890
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Course Description:

UP 116 is intended to introduce students to the basic methods and concepts used in the analysis of social data. Specifically, this course covers descriptive statistics and inferential statistics, including hypothesis testing and multiple regression analysis. These tools provide the foundation for advanced statistical methods (as encountered in UP 316). This course also introduces students to the Microsoft EXCEL software program.

Classes will be held in a lecture/discussion format twice a week and labs and help sessions will be organized as needed. In addition to attending class on a regular basis, taking an active role in class discussions and being prepared for class, students will be required to complete a project, three exams and several homework assignments.

Textbook:

There is one required textbook available at the bookstore:

Sirkin, R. Mark. 2006. *Statistics for the Social Sciences, 3rd Edition*. Sage Publications.

Course Information and Policies:

Exams: You may use a calculator and a formula sheet for each of the three exams. Absents during exams will only be excused for illness, and will require a doctor's note. Missed exams will then need to be taken during office hours.

Labs: We will schedule labs as needed throughout the semester during regular class time. Labs will provide the opportunity to work on problems using statistical procedures available in Microsoft EXCEL.

Homework: Individual practice is critical to learning quantitative methods. For this reason, homework assignments will be assigned throughout the semester. *Please bring both your textbook to every class, as we will work on problems out of the text during many classes.* Late homeworks will be penalized 5% per day. Homework more than a week late will not be accepted.

Project: A project will be assigned later in the semester. It is intended to expose students to the collection and statistical analysis of data to solve real problems. Students will work in groups of 4-5.

Disabilities: Students with disabilities that may affect their learning need to alert instructors during the first two weeks of the class. Accommodations will be made for these individuals.

Grading:

Grades will be assigned as follows:

Homework Assignments	15%
Class Participation	5%
Exam I	20%
Exam II	20%
Exam III	20%
Project: Regression Analysis	20%

Course Schedule:

Week 1	Jan. 17	Introduction
	Jan. 19	Chapter 1: How We Reason
Week 2	Jan. 24	Chapter 2: Levels of Measurement
	Jan. 26	Chapter 3: Defining Variables

Week 3	Jan. 31 Feb. 2	Chapter 4: Measuring Central Tendency Chapter 5: Measuring Dispersion
Week 4	Feb. 7 Feb. 9	Chapter 6: Contingency Tables Exam I Review
Week 5	Feb. 14 Feb. 16	Exam I Chapter 7: Tests of Significance
Week 6	Feb. 21 Feb. 23	Lab: Introduction to EXCEL Tests of Significance
Week 7	Feb. 28 March 2	Tests of Significance Chapter 8: One-Sample z and t Tests
Week 8	March 7 March 9	Lab: One-Sample z and t Tests Chapter 9: Two Sample t Tests
Week 9	March 14 March 16	Two Sample t Tests Chapter 12: Chi Square Tests
Week 10	March 18 - March 26	Spring Break
Week 11	March 28 March 30	Chi Square Tests Exam II Review
Week 12	April 4 April 6	Exam II Chapter 10: ANOVA
Week 13	April 11 April 13	Lab: ANOVA Chapter 13: Correlation and Regression Analysis
Week 14	April 18 April 20	Lab: Correlation and Regression Analysis Chapter 14: Regression Analysis
Week 15	April 25 April 27	Regression Analysis Group Project Presentations
Week 16	May 2 TBA	Group Project Presentations Exam III Review
Exam III:	Friday, May 5, 7:00-10:00 PM (may change)	