

**Lecture / Lab:** Monday & Wednesday 1:00 – 2:20pm, 05 Hayes Annex C  
**Instructor:** Rob Silverman  
**Office:** 07A Hayes Annex C  
**Office Hours:** Monday 2:30pm - 3:30pm (and by appointment)  
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### **The Course:**

This course is designed to expose graduate students to quantitative analysis in planning. During the semester you will develop the skills needed to plan and organize analysis for sound research projects. You will be responsible for a number of assignments. Each is designed to build planning analysis skills. The semester goes by very quickly. Be diligent in your work and budget your time wisely. The required readings apply directly to the assignments. Be prepared to discuss and apply them in class. Late assignments will not be accepted.

The activities and requirements for the course are outlined in this syllabus. During each lecture we will discuss the relevant readings and assignments. During each lab we will apply our new skills to exercises and assignments.

If you have any questions during the semester, please bring them to your professor's attention or the TA's attention. Your professor will be available during his office hours and by appointment. Also, you may contact him by phone or e-mail.

### **Course Objectives:**

The course objectives for URP512 are listed below. These course objects will be aligned with the forthcoming program learning outcomes that are under development in the Department of Urban and Regional Planning. Following their adoption, the program learning outcomes will be posted on the departmental website ([www.ap.buffalo.edu](http://www.ap.buffalo.edu)). The course assignments will be used to assess student learning of the course objectives. Course assignments that assess specific course objectives are identified in the course requirements section of this syllabus.

**Course Objective 1:** Learn about ethics in research

**Course Objective 2:** Learn how to present and analyze descriptive statistics

**Course Objective 3:** Learn how to present and analyze inferential statistics

**Required Text, Required Reserve Readings, and Optional Text:**

*The books are available at the UB Medical Bookstore:*

Urduan, T.C. (2010). *Statistics in plain English, 3<sup>rd</sup> edition*. New York: Routledge. **REQUIRED**

Saldkind, N.J. (2011). *Excel statistics: A quick guide, 2<sup>nd</sup> edition*. Thousand Oaks: Sage Publications.  
**OPTIONAL**

Wagner, W.E. (2012). *Using IBM SPSS statistics for research methods and social science statistics, 4<sup>th</sup> edition*. Thousand Oaks: Sage Publications. **REQUIRED**

Required Reserve Readings are available on UBLearns.

**Course Requirements:**

**Online Ethics Training:** Complete UB's online "Social & Behavioral Research Investigators, Basic Course." This activity affects 4% of the final grade. This training module is located at the following websites: <http://www.research.buffalo.edu/rsp/education.cfm> at the link to <https://www.citiprogram.org/default.asp>. This assignment will be discussed in class on January 26, 2015. After completing the training program print out the screen that verifies you have completed this activity and turn it in before the beginning of class on February 4, 2015. [course objective 1]

**Descriptive Analysis Exercise:** This assignment focuses on descriptive analysis using secondary datasets. The assignment affects 24% of the final grade. This assignment will be discussed in class February 25, 2015. The assignment is due on March 11, 2015. Late assignments will not be accepted. [course objective 2]

**T-Test Exercise:** This assignment focuses on t-test analysis using secondary datasets. The assignment affects 24% of the final grade. This assignment will be discussed in class on March 11, 2015. The assignment is due on April 8, 2015. Late assignments will not be accepted. [course objective 3]

**Contingency Table Exercise:** This assignment focuses on significance tests using secondary datasets. The assignment affects 24% of the final grade. This assignment will be discussed in class on April 15, 2015. The assignment is due on April 29, 2015. Late assignments will not be accepted. [course objective 3]

**Regression Exercise:** This assignment focuses on regression analysis using secondary datasets. The assignment affects 24% of the final grade. This assignment will be discussed in class on April 29, 2015. The assignment is due on May 6, 2015. Late assignments will not be accepted. [course objective 3]

**Grading Policy:**

Your grade will be based on the following (100 points possible for the semester):

Online Ethics Training	4 points
Descriptive Analysis Exercise	24 points
T-Test Exercise	24 points
Contingency Table Exercise	24 points
Regression Exercise	24 points

**Grading Scale:**

<u>Grade</u>	<u>Total Points</u>
A	96-100
A-	90-95.99
B+	87-89.99
B	84-86.99
B-	80-83.99
C+	77-79.99
C	70-76.99
D	60-69.99
F	0-59.99

**Academic Integrity:**

Students are expected to approach the course with seriousness and integrity. It is important to complete assignments on time, attend class regularly, and foster a collegial learning environment. Plagiarism and other instances of academic misconduct will result in a failing grade on a respective assignment, exam, or paper. Students should refer to the *University at Buffalo Graduate Catalog* for clarification on the University's policies and procedures. The University's graduate student academic integrity policy is at the following link: <http://grad.buffalo.edu/Academics/Policies-Procedures/Academic-Integrity.html> .

**Accommodations for Disabilities:**

If you have a disability (physical, learning, or psychological) that impacts your course work please contact the Office of Accessibility Resources (AR), 25 Capen Hall, (716) 645-2608, <http://www.student-affairs.buffalo.edu/ods/> . AR will provide you with information and review appropriate arrangements for reasonable accommodation (such as recruiting note-takers, readers, or extended time on assignments). You must bring requests for accommodations for a disability to the professor's attention within the first two weeks of class.

**Writing Centers:**

The University at Buffalo has a number of writing center where students can get assistance with essays, term papers, and thesis projects. Students should contact one of the following if they would like to access these campus resources:

- Graduate students can contact the Graduate Student Association (GSA) about their Editorial Assistance Program. For information about this program go to the GSA office in 310 Student Union, (716) 645-8604; [gsa-editorial@buffalo.edu](mailto:gsa-editorial@buffalo.edu); <http://gsa.buffalo.edu/editorial/> ,
- International students can contact the English Language Institute. The English Language Institute is located at 320 Baldy Hall; (716) 645-2077; [elibuffalo@buffalo.edu](mailto:elibuffalo@buffalo.edu); <http://wings.buffalo.edu/eli/> .

## SYLLABUS

DATE	MONDAY LECTURES	WEDNESDAY LABS	ASSIGNMENTS
January 26 & 28	Introduction to the Course	Ethics	Online Ethics Training Assigned (1-26-15)
February 2 & 4	The Research Process Andranovich & Riposa: Ch 2 (Reserve)	SPSS Overview Wagner: Ch 1	Online Ethics Training Due (2-4-15)
February 9 & 11	Measurement and Sampling Urban: Ch 1	Data Transformations Wagner: Ch 2, 11	
February 16 & 18	Secondary Data Sources Andranovich & Riposa: Ch 5 (Reserve)	Secondary Data Sets & Sampling Wagner: Ch 3	
February 23 & 25	Descriptive Analysis Urban: Ch 2, 3, 4, 5 & 6	Frequency Distributions & Measures of Central Tendency Wagner: Ch 4	Descriptive Analysis Exercise Assigned (2-25-15)
March 2 & 4	Surveys and Questionnaires Questionnaire Design (Reserve)	Charts and Graphs Wagner: Ch 5, 11	
March 9 & 11	Index Construction & T-Tests Urban: Ch 7, 8 & 9	T-Tests Wagner: Ch 9	Descriptive Analysis Exercise Due (3-11-15)  T-Test Exercise Assigned (3-11-15)
<b>MARCH 16 - 20</b>	<b>SPRING BREAK – NO CLASS</b>	<b>SPRING BREAK – NO CLASS</b>	<b>SPRING BREAK</b>
March 23 & 25	ANOVA Urban: Ch 10 Wagner Ch 10	ANOVA Wagner: Ch 10	
March 30 & April 1	Contingency Tables and Chi-Square Urban: Ch 14	Cross-Tabs Wagner: Ch 9	
APRIL 6 & 8	Open Lab	Open Lab	T-Test Exercise Due (4-8-15)
April 13 & 15	Nominal & Ordinal Measures of Association Wagner: Ch 6	Measures of Association	Contingency Tables Exercise Assigned (4-15-15)
April 20 & 22	Regression Urban: Ch 13	Regression Wagner: Ch 7	

<b>DATE</b>	<b>MONDAY LECTURES</b>	<b>WEDNESDAY LABS</b>	<b>ASSIGNMENTS</b>
<b>April 27 &amp; 29</b>	<b>Logistic Regression</b> Urban: Ch 15	<b>Logistic Regression</b> Wagner: Ch 8	<b>Contingency Table</b> <b>Exercise Due (4-29-15)</b>  <b>Regression Exercise</b> <b>Assigned (4-29-15)</b>
<b>May 4 &amp; May 6</b>	<b>Factor Analysis</b> Urban: Ch 15 Wagner: Ch 8	Open Lab	<b>Regression Exercise Due</b> <b>(5-6-15)</b>