

Lecture: Tuesday 10:40am-12pm, Online
Lab: Thursday Lab 10:40am-12pm, Online
Instructor: Rob Silverman
Office: Hayes 329
Office Hours: Tuesday 12:30pm-1:30pm on Zoom (and by appointment)
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TA: Micaela Lipman
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Office Hours: Zoom TBA (and by appointment)

The Course:

This course is designed to familiarize graduate students with quantitative analysis techniques 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 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.

Assigned readings, tutorial videos and other materials should be reviewed **before** class meetings on the dates where they appear in the syllabus. Lectures and labs are designed to reinforce those materials.

If you have any questions during the semester, bring them to your professor's and/or the TA's attention. Your professor and TA will be available during his office hours and by appointment. Also, you may contact the professor by phone or e-mail (email is the best way to leave a message during fall 2020).

Course Objectives:

The course objectives for URP512 are listed below. 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 core concepts related to descriptive and inferential statistics

Course Objective 3: Learn how to present and analyze descriptive statistics

Course Objective 4: Learn how to present and analyze inferential statistics

¹ **During the fall 2020 semester, offices hours will be scheduled on Zoom. The best way to contact the professor and/or TA outside of scheduled office hours is via email.**

Required Text, Required Reserve Readings, and Optional Text:

The books are available at the UB Medical Bookstore:

Urdan, T.C. (2016). *Statistics in plain English, 4th edition*. New York: Routledge.

Wagner, W.E. (2019). *Using IBM SPSS statistics for research methods and social science statistics, 7th edition*. Thousand Oaks: Sage Publications.

Required Reserve Readings are available on UBLearns.

Course Requirements:

Online Ethics Training [course objective 1]: Complete UB’s online “Responsible Conduct of Research (RCR), Basic Course.” This activity affects 5% of the final grade. This training module is located at the following website: <https://www.citiprogram.org/default.asp> . This assignment will be discussed in class on **September 1, 2020**. After completing the training program print out the screen that verifies you have completed this activity and upload it to the UBLearns site before 10:30am on **September 10, 2020**.

Online Quizzes [course objective 2]: There are four online quizzes. Each affects 5% of the final grade.

- Quiz 1 will be available on **9-29-20** and it is due before 10:30am on **10-8-20**.
- Quiz 2 will be available on **10-13-20** and it is due before 10:30am on **10-22-20**.
- Quiz 3 will be available on **10-27-20** and it is due before 10:30am on **11-12-20**.
- Quiz 4 will be available on **11-12-20** and it is due before 10:30am on **12-3-20**.

Descriptive Analysis Exercise [course objective 3]: This assignment focuses on descriptive analysis using secondary datasets. The assignment affects 25% of the final grade. This assignment will be discussed in class **10-1-20**. The assignment is due before 10:30am on **10-5-20**.

T-Test Exercise [course objective 4]: This assignment focuses on t-test analysis using secondary datasets. The assignment affects 25% of the final grade. This assignment will be discussed in class on **10-15-20**. The assignment is due before 10:30am on **11-5-20**.

Regression Exercise [course objective 4]: This assignment focuses on regression analysis using secondary datasets. The assignment affects 25% of the final grade. This assignment will be discussed in class on **11-19-20**. The assignment is due before 10:30am on **12-10-20**.

Grading Policy:

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

Online Ethics Training	5 points
Online Quiz #1	5 points
Online Quiz #2	5 points
Online Quiz #3	5 points
Online Quiz #4	5 points
Descriptive Analysis Exercise	25 points
T-Test Exercise	25 points
Regression Exercise	25 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.

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), 60 Capen Hall, (716) 645-2608, <http://www.buffalo.edu/studentlife/who-we-are/departments/accessibility.html> . 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 the Center for Excellence in Writing for assistance if they would like to access these campus resources. It is located at 209 Baldy Hall, Email: writing@buffalo.edu; <http://writing.buffalo.edu/>.

SYLLABUS²

DATES	TUESDAY LECTURES	THURSDAY LABS	ASSIGNMENTS
September 1 & 3	Introduction to the Course	Ethics	Online Ethics Training Assigned (9-1-20)
September 8 & 10	The Research Process Andranovich & Riposa: Ch 2 (Reserve)	SPSS Overview Wagner: Ch 1 See the Tutorial Videos on UBLearns for 9-10-20	Online Ethics Training Due (9-10-20)
September 15 & 17	Measurement and Sampling Urdan: Ch 1	Data Transformations Wagner: Ch 2, 11 See the Tutorial Videos on UBLearns for 9-17-20	
September 22 & 24	Secondary Data Sources Andranovich & Riposa: Ch 5 (Reserve)	Secondary Data Sets & Sampling Wagner: Ch 3	
September 29 & October 1	Descriptive Analysis Urdan: Ch 2, 3, 4, 5 & 6	Frequency Distributions & Measures of Central Tendency Wagner: Ch 4 See the Tutorial Videos on UBLearns for 10-1-20	Online Quiz #1 Opens (9-29-20) Descriptive Analysis Exercise Assigned (10-1-20)
October 6 & 8	Surveys and Questionnaires Questionnaire Design (Reserve)	Charts and Graphs Wagner: Ch 5, 11 See the Tutorial Videos on UBLearns for 10-6-20	Online Quiz #1 Due (10-8-20)
October 13 & 15	Index Construction & T-Tests Urdan: Ch 7, 8	T-Tests Wagner: Ch 6 See the Tutorial Videos on UBLearns for 10-15-20	Online Quiz #2 Opens (10-13-20) Descriptive Analysis Exercise Due (10-15-20) T-Test Exercise Assigned (10-15-20)

² During fall 2020, lecture materials will be made available on UBLearns on Fridays prior to the class meetings listed in the syllabus. Lab materials will be made available on UBLearns on Tuesdays prior to the lab meetings. Students should review those materials (PowerPoints and SPSS tutorial videos) before coming to classes and/or labs.

DATES	TUESDAY LECTURES	THURSDAY LABS	ASSIGNMENTS
October 20 & 22	ANOVA Urdan: Ch 9, 10(skim), 11(skim) Wagner Ch 10	ANOVA Wagner: Ch 10 See the Tutorial Videos on UBLearns for 10-22-20	Online Quiz #2 Due (10-22-20)
October 27 & 29	Contingency Tables and Chi-Square Urdan: Ch 14	Cross-Tabs Wagner: Ch 7 See the Tutorial Videos on UBLearns for 10-29-20	Online Quiz #3 Opens (10-27-20)
November 3 & 5 is the week of the Association of Collegiate Schools of Planning Conference. Lectures and Labs will be asynchronous.			
November 3 & 5	Nominal & Ordinal Measures of Association Wagner: Ch 7	Measures of Association See the Tutorial Videos on UBLearns for 11-5-20	T-Test Exercise Due (11-5-20)
November 10 & 12	Regression Urdan: Ch 12, 13	Regression Wagner: Ch 8 See the Tutorial Videos on UBLearns for 11-12-20	Online Quiz #3 Due (11-12-20) Online- Quiz #4 Opens (11-12-20)
November 17 & 19	Multiple Regression Wagner: Ch 8	Multiple Regression Wagner: Ch 8 See the Tutorial Videos on UBLearns for 11-19-20	Regression Exercise Assigned (11-19-20)
NOVEMBER 24 & 26	THANKSGIVING BREAK – NO CLASS		
December 1 & 3	Logistic Regression Wagner: Ch 9	Logistic Regression See the Tutorial Videos on UBLearns for 12-3-20	Online Quiz #4 Due (12-3-20)
December 8 & 10	Factor Analysis Urdan: Ch 15 See the Tutorial Videos on UBLearns for 12-8-20	Open Lab	Regression Exercise Due (12-10-20)