University of Florida   **Dept. of Urban and Regional Planning**
Fall 2016

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URP 6231
Quantitative Data Analysis

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Instructor: Paul Zwick, Ph.D.
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Teaching Assistant: Changjie Chen

Office Periods: To be determined
Class Periods: Online Course in Canvas

Prerequisites: None
Readings: Text: None Required
                       However: If you decide you would like a book for this course I recommend **"Discovering Statistics using SPSS; Third edition" by Andy Field (2009).**
Software: Required SPSS Statistics Student Version 20.0 or greater
                       http://software.ufl.edu/agreements/spss/student/index.html

Students can and should use the UFApps SPSS to complete their homework assignments and tests. The data sets for this class are available within the Canvas Course and on disk storage in UFApps. The use of UFApps is highly encouraged and the instructor is not responsible for software problems in SPSS if located on the student's personal computing device. Problems with UFApps installation of SPSS can be discussed with the technicians at the UF HUB (see the last section of this syllabus). The instructor will make every effort to assist students with software problems, however the reason for recommending UFApps is because the use of UFApps minimizes software installation problems.

Lynda.com: https://lss.at.ufl.edu/

Videos

Attendance: Online Course which adheres to UF attendance policy.

Course Description:

This course is intended to provide students in the Urban and Regional Planning program with fundamental data analysis techniques and statistics skills required by the UF Urban and Regional Planning program for use in thesis and dissertation research and by the planning profession. The course provides analysis skills that allow planning students to achieve in the area of statistical analysis as required for the hypothesis testing general planning and within the areas of specialization offered by the department. In addition, effort has been made to include examples and assignments that provide opportunity to utilize statistical analysis as a problem solving/analysis methodology for environmental decision making, environmental justice, and in support of species and habitat biodiversity and sustainability. Finally the course supports the department's mission as a core course in the department's curriculum.

Course Objectives:

1. Knowledge of the normal distribution and the importance of a normal distribution in statistics
2. Test hypotheses using parametric and non-parametric analysis.
3. Analyze statistical data.
4. Use statistical skills required to complete thesis or dissertation research.
5. Apply planning statistical analysis in support of planning problem analysis.
6. Develop critical thinking skills necessary to compete in the planning profession.

Course Outline:

Module	Topics Covered
Module 1	Course Introduction, Data Types, and Descriptive Statistics
Module 2	The Normal Distribution
Module 3	Hypothesis Testing (One and Two-Sample Case)
Module 4	Multiple Sample Cases
Module 5	Correlations Statistics
Module 6	Simple Linear Regression
Module 7	Multiple Variable Regression
Module 8	Population Projections and Curve Fitting in SPSS

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Course Assignments and Value:

Assignment	Value

Homework
  Module 2
  Module 3
  Module 4
  Module 5
  Module 6
  Module 7
  Module 8
	7 x 10 points

Essays
  Module 1
  Module 2
  Module 3
  Module 5
  Module 6
  Module 7
	6 x 10 points

Midterm	400 points
Final Exam	400 points
Total:	**930 points**

Grading Scheme:

Letter Grade	Percentage
A	93-100%
A-	90-92.99%
B+	88-89.99%
B	83-87.99%
B-	80-82.99%

Letter Grade	Percentage
C+	78-79.99%
C	73-77.99%
C-	70-72.99%
D+	68-69.99%
D	58-67.99%
D-	55-57.99%
E	Below 55.99%

For greater detail, see the Registrar's Grade Policy regulations at
http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html

Academic Honesty:

Students must follow the University's policy regarding cheating and the use of copyrighted materials. Students are responsible for reading and abiding by the University's student code of conduct (http://www.dso.ufl.edu/studentguide/studentconductcode.php) and the University Honor Code. Under the 'Student Honor Code', "on all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: 'On my honor, I have neither given nor received unauthorized aid in doing this assignment'" (http://www.dso.ufl.edu/judicial/honorcode.php). In particular, there are rules governing plagiarism. If you directly quote someone or use an idea from another source, you must attribute that idea or those words to an original author. If you are unclear about what constitutes plagiarism, please make an appointment with me to discuss this. You can also consult the above website and the graduate catalog for further information. In the context of this course, if you directly quote someone or use an idea from another source, you **must** attribute that idea or words. Failure to follow the rules regarding Integrity in Graduate School may result in a failure in this course and possible disciplinary action under the Judicial Process for Academic Honesty Violations. If you are unclear about what constitutes plagiarism or other aspects of academic honesty, please make an appointment with the instructor to discuss this.

Use of Other Reference Material

In written work, the format of all references should follow the format of used by the *Journal of the American Planning Association* (JAPA) and based upon *Publication Manual of the American Psychological Association, Sixth Edition* (2010), and *the Chicago Manual of Style, 15th Edition*. This method is called the **parenthetical citations – reference list style or the reference list style**. Citations should appear in the text as follows: (Levinson & Krizek, 2008) when using an idea from the text; or (Levinson & Krizek, 2008, p. 103) when using a specific quote on the indicated page (in this case, page 103). A good source of information on the APA format can be found on the website of the Writing Center at the University of Wisconsin – Madison:

and under the "Frequently Asked Questions" about the APA Style at: . Students from other departments may use a commonly accepted format for citations from their own field.

General Information

The course has no prerequisite courses, and students with advanced statistical analysis skills may be exempted from this class with both instructor and graduate coordinator permission. You are expected to achieve at least a "B" in this course because it is a core requirement of a graduate program at the University of Florida.

At the completion of this course, students should have an in-depth knowledge of planning statistical analysis, basic probability, and hypothesis testing using parametric and non-parametric analysis in support of planning problem analysis.

This course is a required course for Masters of Arts in Urban and Regional Planning (MAURP) students.

No student will be allowed to miss the midterm or final examination without prior authorization. Students are expected to attend classes and are required to notify me if they are expecting to miss a class because of another commitment or class conflict. I will make every effort to accommodate students with a legitimate reason for missing a lecture; however the student must make arrangements to get the lecture notes from a classmate.

Accommodations for Students with Disabilities:

I will respect the needs for accommodations for students will disabilities consistent with the University's policy on such accommodations. Students requesting accommodation must first register with the Dean of Students Office at 001 Reid Hall (352) 392-8565. The Dean of Students Office will provide documentation to the student who must then provide this documentation to me when requesting accommodation. I am happy to provide reasonable accommodations for students who register with the DRC, and ask that students inform me of any request no later than the first week into the course.

Teaching Philosophy:

The assignments of this course and all courses that I teach have been designed to allow students to practice the kinds of skills they will use as planning professionals. The exercises have been designed to develop the skills that will be important in professional practice: (1) critical thinking; (2) presentation (verbal) communication; (3) evaluation and critique; (4) argumentation; and (5) written communication skills.   Consistent with the expectations of professional conduct in this course, all written assignments, except minor in-class exercises, must be typed. No hand-written assignments will be accepted**. Assignments are to be provided to me on or before the assignment due date in Canvas. If there is a problem and alternative method for submitting essays, homework, or examinations is to email the material to me at pdzwick@ufl.edu before the due date and time.**

Students will be asked to exercise their critical thinking skills throughout the course in homework assignments and through examinations.

Student Support Services:

As a student in a distance learning program or on campus online course, you have access to the student support services. For course content questions contact your instructor.

For any technical issues you encounter with your course please contact the UF computing Help Desk at 342-392-HELP (4357). Visit Information Technology - UF Computing Help Desk for more information.

For a list of additional student support services links and information please visit Student Services - Distance Learning.