Fall 2015

URBN 6005

Peter Yaukey
University of New Orleans

SYLLABUS

URBN 6005, STATISTICS FOR URBAN ANALYSIS, Fall 2015
Instructor: Peter Yaukey

Meeting time: Wed 7:00-9:45 PM
Meeting Place: Milneburg 320
Office: MH 354 (280-3164) pyaukey@uno.edu
Office hours: Tue Thu 12:30-3:00, Wed 5:00-6:00, or by appointment

"It is the glory of God to conceal a thing; but the honor of kings is to search out a matter." - Proverbs 25:2.

Aug	19	Introduction; Intro to Descriptive Statistics; Data Types
	26	Graphs; Mode, Median, Means
Sep	2	Dispersion, Spatial statistics
	9	Description of shapes; Ex 1 due
	16	Introduction to Hypothesis Testing
	23	Hypothesis Testing; χ^2 tests
	30	K-S tests
Oct	7	U-tests; Ex 2 due
	14	Midterm
	21	Introduction to SAS software
	28	ANOVA; Ex 3 due
Nov	4	Kruskal Wallis Tests
	11	Regression; Ex 4 due
	18	Correlation;
	25	No class- Thanksgiving
Dec	2	Ex 5 due
Wed	9	FINAL EXAM, 8:00-10:00 pm FINAL PROJECTS DUE

GRADING

Midterm Exam	= 100 points
5 exercises @ 30-50 points each	= 200 points
Final Exam	= 100 points
Final Project (see reverse)	= 100 points
Total	= 500 points

GRADING SCALE

90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	F

In two of the exercises listed above, students will participate in collection and analysis of data for an ongoing post-Katrina rebuilding study that the University of New Orleans has conducted since 2006 as a service to the community. Students will be assigned street segments in the city, which they will visit and where they will make curbside evaluations of the status of rebuilding. These data will be made publicly available, and interested users in the community invited to dialogue with UNO regarding the results.

The final project will consist of a short paper (4 pp. + tables) addressing and analyzing a research question. The student will find (or gather) a suitable data set, and analyze it statistically.

Each unexcused absence will result in a deduction of 5 points from the final point total. If you need a makeup exam, see me beforehand, or provide a verifiable excuse. Extenuating circumstances are necessary (stranded by a hurricane, treed by a moose, captured by aliens, intercollegiate athletic event, etc.). Final drop date is October 14 (receive "W").

OPTIONAL TEXTS

Ebdon, D. *Statistics in Geography: A practical approach*, 2nd Ed. Wiley-Blackwell, 1991. ISBN 978-0-631-13688-0 (pbk).

McGrew, J.C. Jr. & Monroe, C.B. *An Introduction to Statistical Problem Solving in Geography*, 2nd Ed. Waveland Press, 2009. ISBN 1-57766-633-X.

STUDENT LEARNING OBJECTIVES
After successfully completing this course, students will be able to:

Understand and explain various methods for utilizing quantitative methods in urban analysis and research, including in the description of data and testing of hypotheses.

Understand complexities of measuring urban blight, and the usefulness of field data collection and statistical analyses in doing so.

Understand principles governing unbiased research project design, data collection and analysis.

Critically evaluate the statistical validity of research they see represented in magazines, on television, and in other media.

Develop a working knowledge of the statistical software package SAS.

Conceptualize a research project, and conduct it utilizing appropriate statistical methods.

Develop an ability to utilize statistics in and outside the classroom in the future.

STUDENT CONDUCT
All class participants are expected to treat their classmates with respect and collegiality under all circumstances.

ACADEMIC INTEGRITY
Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the UNO Judicial Code for further information. The Code is available online at http://www.uno.edu/~stlf/policy%20Manual/judicial_code_pt2.htm.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES
Students who qualify for services will receive the academic modifications for which they are legally entitled. It is the responsibility of the student to register with the Office of Disability Services (UC 260) each semester and follow their procedures for obtaining assistance.