FALL SYLLABUS

PSY 5311: Univariate and Bivariate Statistics

Tuesday/Thursday, 9:30 am - 10:50 pm, UAC 206 & ELA 224

**Instructor Information**

Dr. Yueqin Jean Hu, PhD.

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Office hours: Monday 10:00 am-3:00 pm

**Course Description**

Univariate Statistics is a 3 credit graduate course that introduces basic statistical analysis commonly used in psychology and other behavioral science. Topics include analysis of variance, simple and multiple linear regression, logistic regression, chi-square and general linear model. This course is required for all first year psychology graduate students. No prerequisite is required.

**Class Structure**

Instruction will consist of face-to-face lectures and hands-on practice using a computerized data analysis program (SPSS) in the computer lab.

**Assessment and Grading**

Assessment will occur through weekly homework exercises, and two exams given during the semester. Attendance is not required.

Homework 50%

Midterm 20%

Final Exam 30%

**Calculator**

Everyone needs a calculator in class.

**Textbook**

Rebecca M. Warner. Applied Statistics: From Bivariate Through Multivariate Techniques. 2nd Edition. ISBN-13: 978-1412991346 ISBN-10: 141299134X

**Academic Honesty**

Examples of academic dishonesty include cheating on a test, collusion to evade academic rules, and plagiarism—i.e., turning in work that is in any way not your own. Any cases of academic dishonesty will result in a failing grade for the course and will lead to additional disciplinary actions. Please refer to the University Honor Code Page for details: <http://www.txstate.edu/effective/upps/upps-07-10-01.html>. Please also see the following link for the University Honor Code: <http://www.txstate.edu/effective/upps/upps-07-10-01-att1.html>.

**Special Needs**

Students who require accommodations for the completion of this course must notify the Office of Disability Services and the instructor in the first week of the semester.

**Learning Outcomes**

The Department of Psychology has adopted expected student learning outcomes for the undergraduate major, the graduate major, and for PSY 1300, a general education course meeting a requirement for the social and behavioral science component. These expected student learning outcomes are available for your review at the following website: <http://www.psych.txstate.edu/assessment/>.

**Course Schedule**

Date Topic Materials Events

Aug. 30 Introduction Lecture note

Sep. 01 Basic Statistics Lecture note & Chap1 HW 1

Sep. 06 Descriptive Statistics Lecture note & Chap2

Sep. 08 Inferential Statistics Lecture note & Chap3 HW 2

Sep. 13 Preliminary Analysis Lecture note & Chap4

Sep. 15 Lab Lab note HW 3

Sep. 20 T Test Lecture note & Chap5

Sep. 22 Lab Lab note HW 4

Sep. 27 One-Way ANOVA Lecture note & Chap6

Sep. 29 Lab Lab note HW 5

Oct. 04 Factorial ANOVA Lecture note & Chap13

Oct. 06 Lab Lab note HW 6

Oct. 11 ANCOVA Lecture note & Chap17

Oct. 13 Lab Lab note HW 7

Oct. 18 Review Lecture note

Oct. 20 Midterm Mid

Oct. 25 Correlation Lecture note & Chap7

Oct. 27 Lab Lab note HW 8

Nov. 01 Regression Lecture note & Chap9

Nov. 03 Lab Lab note HW 9

Nov. 08 Multiple regression Lecture note & Chap11

Nov. 10 Lab Lab note HW 10

Nov. 15 Dummy Variables Lecture note & Chap12

Nov. 17 Interaction Lecture note & Chap15 HW 11

Nov. 22 Holidays No Class

Nov. 24 Holidays No Class

Nov. 29 Logistic Regression Lecture note & Chap 23

Dec. 01 Lab Lab note HW 12

Dec. 05 Review Lecture note

Dec. 08 Lab Review Lab note

Dec. 13 Final Exam Final