FALL SYLLABUS

PSY 5311: Univariate and Bivariate Statistics

Tuesday/Thursday, 11:00 am - 12:20 pm, UAC 206 & ELA 224

**Instructor Information**

Dr. Yueqin Jean Hu, PhD.

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Office hours: T, Th 9:00 to 11:00 am, or by appointment

**Course Description**

Univariate Statistics is a 3 credit graduate course that introduces basic statistical analyses commonly used in psychology and other behavioral science. Topics include analysis of variance, simple and multiple linear regression, logistic regression, chi-square and generalized 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, a final project, and four exams given during the semester. Attendance is not required.

Homework 20%

Quiz 10%

Midterm 20%

Final Project 20%

Final Exam 30%

**Calculator**

Everyone needs a calculator that has a mean and standard deviation key in class. I will have an example on the first class.

**Textbook**

Craig A. Mertler & Rachel A. Vannatta. Advanced and multivariate statistical methods. Fourth Edition. ISBN13: 978-1884585845, ISBN10: 1884585841

**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. 27 Introduction Lecture note

Aug. 29 Review Descriptive Statistics Lecture note & Chap1 HW 1

Sep. 3 Review Inferential statistics Lecture note & Chap1

Sep. 5 Pre-Analysis Lecture note & Chap3 HW 2

Sep. 10 Regression and correlation Lecture note

Sep. 12 Lab Lab note HW 3

Sep. 17 GLM: T test and ANOVA Lecture note& Chap4

Sep. 19 Lab Lab note Quiz 1

Sep. 24 GLM: Multiple Comparison Lecture note

Sep. 26 Lab Lab note HW 4

Oct. 1 GLM: Factorial ANOVA Lecture note & Chap4

Oct. 3 Lab Lab note HW 5

Oct. 8 GLM: ACOVA Lecture note & Chap5

Oct. 10 Lab Lab note HW 6

Oct. 15 Review Lecture note

Oct. 17 Midterm Mid

Oct. 22 Multiple regression Lecture note & Chap7

Oct. 24 Lab Lab note HW 7

Oct. 29 Multiple regression: Interaction Lecture note & Chap7

Oct. 31 Lab Lab note HW 8

Nov. 5 Multiple regression: R square Lecture note & Chap7

Nov. 7 Lab Lab note Quiz 2

Nov. 12 Logistic Regression Lecture note & Chap11

Nov. 14 Lab Lab note HW 9

Nov. 19 Nonparametric Tests Lecture note

Nov. 21 Lab Lab note HW 10

Dec. 3 Review Lecture note

Dec. 5 Final Project Proj

Dec. 10 Final Exam Final