FALL SYLLABUS

PSY 5311: Univariate and Bivariate Statistics

Monday/Wednesday, 9:30 am - 10:50 am, UAC205 & ELA224

**Instructor Information**

Dr. Yueqin Jean Hu, PhD.

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Office hours: M/W 3:30 pm-5:00 pm

**Course Description**

Univariate and Bivariate Statistics is a 3-credit graduate course that introduces basic statistical analysis commonly used in psychology and other behavioral science. Topics include t test, analysis of variance, regression, logistic regression, 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%

**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. 26 Intro to Basic Statistics Lecture note & Chap1

Aug. 28 Descriptive Statistics Lecture note & Chap2 HW 1

Sep. 02 Labor Day No Class

Sep. 04 Inferential Statistics Lecture note & Chap3 HW 2

Sep. 09 Preliminary Analysis Lecture note & Chap4

Sep. 11 Lab Lab note HW 3

Sep. 16 T Test Lecture note & Chap5

Sep. 18 Lab Lab note HW 4

Sep. 23 One-Way ANOVA Lecture note & Chap6

Sep. 25 Lab Lab note HW 5

Sep. 30 Factorial ANOVA Lecture note & Chap13

Oct. 02 Lab Lab note HW 6

Oct. 07 ANCOVA Lecture note & Chap17

Oct. 09 Lab Lab note HW 7

Oct. 14 Review Lecture note

Oct. 16 Midterm Mid Exam

Oct. 21 Correlation Lecture note & Chap7

Oct. 23 Lab Lab note HW 8

Oct. 28 Regression Lecture note & Chap9

Oct. 30 Lab Lab note HW 9

Nov. 04 Multiple regression Lecture note & Chap11,14

Nov. 06 Lab Lab note HW 10

Nov. 11 Dummy Variables Lecture note & Chap12

Nov. 13 Interaction Lecture note & Chap15 HW 11

Nov. 18 Logistic Regression Lecture note & Chap 23 HW 12

Nov. 20 Lab Lab note

Nov. 25 Thanksgiving Break No Class

Nov. 27 Thanksgiving Break No Class

Dec. 03 Review Final Review Exercise Key

Dec. 05 Final Exam Final Exam