FALL SYLLABUS

PSY 5311: Univariate and Bivariate Statistics

Tuesday/Thursday, 11:00 am - 12:20 pm, ELA 283B & ELA 224

**Instructor Information**

Dr. Yueqin Jean Hu, PhD.

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Office hours: T/Th 1:30 pm-4:00 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. 29 Introduction Lecture note

Aug. 31 Basic Statistics Lecture note & Chap1 HW 1

Sep. 05 Descriptive Statistics Lecture note & Chap2

Sep. 07 Inferential Statistics Lecture note & Chap3 HW 2

Sep. 12 Preliminary Analysis Lecture note & Chap4, 10

Sep. 14 Lab Lab note HW 3

Sep. 19 T Test Lecture note & Chap5

Sep. 21 Lab Lab note HW 4

Sep. 26 One-Way ANOVA Lecture note & Chap6

Sep. 28 Lab Lab note HW 5

Oct. 03 Factorial ANOVA Lecture note & Chap13

Oct. 05 Lab Lab note HW 6

Oct. 10 ANCOVA Lecture note & Chap17

Oct. 12 Lab Lab note HW 7

Oct. 17 Review Lecture note

Oct. 19 Midterm Mid

Oct. 24 Correlation Lecture note & Chap7,8

Oct. 26 Lab Lab note HW 8

Oct. 31 Regression Lecture note & Chap9

Nov. 02 Lab Lab note HW 9

Nov. 07 Multiple regression Lecture note & Chap11,14

Nov. 09 Lab Lab note HW 10

Nov. 14 Dummy Variables Lecture note & Chap12

Nov. 16 Interaction Lecture note & Chap15 HW 11

Nov. 21 Holidays No Class

Nov. 23 Holidays No Class

Nov. 28 Logistic Regression Lecture note & Chap 23

Nov. 30 Lab Lab note HW 12

Dec. 05 Review Lecture note

Dec. 07 Lab Review Lab note

Dec. 12 Final Exam Final