

2018 SPRING SYLLABUS
PSY 5321: Multivariate Statistics
Monday, 12:30 pm - 1:50 pm, UAC206
Wednesday, 12:30 pm -1:50 pm, UAC342

Instructor Information

Dr. Yueqin Jean Hu, PhD.
Office: UAC 266, Phone: 512-245-7347
Email: yjh4@txstate.edu
Office hours: M&W 9:00 am – 11:00 am

Course Description

Multivariate Statistics is a 3 credit graduate course that introduces advanced statistical analyses commonly used in psychology and other behavioral science. Topics include multivariate analysis of variance and covariance, Path Analysis, Test Theory, Factor Analysis, and Structural Equation Modeling. 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 attendance, weekly homework exercises, and four exams given during the semester.

Attendance	10%
Homework	30%
Quiz	10%
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
Jan. 17	Course Introduction	Lecture note	HW 1
Jan. 22	MANOVA	Lecture note & Chap19	
Jan. 24	Lab	Lab note	HW 2
Jan. 29	MANCOVA	Lecture note & Chap17	
Jan. 31	Lab	Lab note	HW 3
Feb. 05	Repeated Measures	Lecture note & Chap22	
Feb. 07	Lab	Lab note	Quiz 1
Feb. 12	Discriminant Analysis	Lecture note & Chap18	
Feb. 14	Lab	Lab note	HW4
Feb. 19	Path Analysis	Lecture note& Chap16	
Feb. 21	Lab	Lab note	HW 5
Feb. 26	Path Analysis: Mediation	Lecture note& Chap16	
Feb. 28	Lab	Lab note	HW 6
Mar. 05	Review	Lecture note	
Mar. 07	Midterm Exam		Exam

Mar. 12	Spring Break		
Mar. 14	Spring Break		
Mar. 19	Test Theory: Reliability	Lecture note & Chap21	
Mar. 21	Lab	Lab note	HW 7
Mar. 26	Test Theory: Validity	Lecture note & Chap21	
Mar. 28	Lab	Lab note	HW 8
Apr. 02	Exploratory Factor Analysis	Lecture note & Chap20	
Apr. 04	Lab	Lab note	HW 9
Apr. 09	Confirmatory Factor Analysis	Lecture note & Chap20	
Apr. 11	Lab	Lab note	HW 10
Apr. 16	Introduction to SEM	Lecture note	
Apr. 18	Lab	Lab note	
Apr. 23	Review		
Apr. 25	Lab		
Apr. 30	Reading Day		
May. 02	Final Exam		Exam