PSYCHOLOGY 31530
BEHAVIORAL SCIENCES STATISTICS

Summer 1998   Instructor: Xue-mei HU, PhD
Starting on 07/9/98 and ending on 09/10/98   Office Hours: by appointment
Class Meeting Time: Thursday 16:45 - 20:55 pm
Class Meeting Room: Building 679, Pearl Harbor

This course is intended to introduce students to the basic statistical methods used by social scientists in general and psychologists in particular in their analysis of quantitative data. It covers measures in describing central tendency and dispersion, estimation, hypothesis testing, measures of association, and simple regression methods. The objective of the course is to teach not only the methods of statistics, but also how to apply these methods appropriately.

REQUIRED TEXTBOOK
ESSENTIALS OF STATISTICS FOR THE BEHAVIORAL SCIENCE
Second Edition (1995), by Frederick J Gravetter and Larry B. Wallnau

COURSE REQUIREMENTS
Students are required to attend class regularly and complete class assignments and other homework exercises. Course grades are based on class and homework assignments (30 points), and five in-class exams (5 x 30 points = 150 points), attendance (20 points). Students can earn 15 extra points for their grades by doing take-home written exams.

SCHEDULES OF CLASSES AND ACTIVITIES

Date	Class Activities	Readings
July 9	Introduction, Frequency Distributions	Chap. 1 & 2
July 16	**The First Exam**	
	Central Tendency	Chap. 3
July 23	Variability, z-scores and	Chap. 4 & 5
	Standardized Distributions	
July 30	**The Second Exam**	
	Probability and Samples	Chap. 6 & 7
Aug. 6	Hypothesis Testing, the *t* Statistic	Chap. 8 & 9
Aug. 13	**The Third Exam**	
	Hypothesis Tests	Chap. 10
Aug. 20	Hypothesis Tests, Estimation	Chap. 11 & 12
Aug. 27	**The Fourth Exam**	
	Analysis of Variance	Chap. 13
Sept. 3	Correlation and Regression, the Chi-Square Stat.	Chap. 14 & 15
Sept. 10	The Chi-Square Statistic	Chap. 15 & 16
	The Final Exam	
	Deadline for extra point take-home exam	