PSYC300-A01 – Summer 2006
Statistics in Psychology

Course Instructor: Dr. Michael E. Hurley
Office Hours: MTWR 11:45 a.m. – 12:15 p.m.
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Text: Gravetter, F.J. & Wallnau, L.B. (2004). Statistics for the behavioral sciences (6th Edition). Belmont, CA: Wadsworth/Thompson.

Psychology 300 is an introduction to statistics as it applies to psychological research. The emphasis in the lecture will be on understanding and applying statistical tests to psychological data, as well as on mathematical derivations. By completion of the course, you should be able to select appropriate statistics, apply them, and make correct statistical decisions to answer many different questions of interest to psychological researchers.

Date	Topic	Reading Assignment
5/22 (M)	Introduction, Statistics & the Research Process	G & W Chapter 1
5/23 (T)	Frequency Distributions & Percentiles	G & W Chapter 2
5/24 (W)	Measures of Central Tendency	G & W Chapter 3
5/24 (W)	Measures of Variability	G & W Chapter 4
5/25 (R)	z-Score Transformations and the Normal Curve Model; Percentiles	G & W Ch 5 & 6 (pp 180-184)
5/30 (T)	**Exam 1**	**G & W Ch 1 thru 4**
5/31 (W)	Describing Linear Relationships Using Correlations	G& W Ch 16
6/1 (R)	Linear Regression and Predicting Variability	G & W Ch 16
6/5 (M)	**Exam 2**	**G & W Ch 5, 6 & 16**
6/6 (T)	Methods of Sampling, Sampling Distributions, Sampling Error; Probability and its Application to Hypothesis Testing	G & W Ch 6 & 7
6/7 (W)	Overview of Statistical Hypothesis Testing: The z-Test	G & W Ch 8
6/8 (R)	Significance Testing of a Single Sample Mean: The t-Test	G & W Ch 9
6/12 (M)	**Exam 3**	**G & W Ch 6, 7, 8, & 9**
6/13 (T)	Significance Testing of Two Sample Means: The t-Test	G & W Ch 10 & 11
6/14 (W)	One-Way Analysis of Variance	G & W Ch 13
6/15 (R)	Two-Way Analysis of Variance	G & W Ch 15
6/19 (M)	Two-Way Analysis of Variance	G & W Ch 15
6/20 (T)	Nonparametric Procedures: Chi Square	G & W Ch 17
6/21 (W)	Reading Day	
6/22 (R)	**Final Exam (10:30 a.m. - 1:15 p.m.)**	**G & W Ch 13 thru 17**

Course Grade Guidelines

1. There will be four exams, the first 3 of which are worth 50 points toward the final grade. The final exam is worth 25 points toward the final grade. The lab is worth 25 points toward the final grade.
2. Final grades will be given accordingly: 90 – 100 = A range (A- to A+), 80 – 89 = B range (B- to B+), 70 to 79 = C range (C- to C+), 60 to 69 = D, below 60 = F.
3. Attendance at lectures and labs is required.
4. Any perceived honor code violation in this course will be reported to the university's Honor Council for appropriate adjudication.

Use of Technology

The lab section for this course will include instruction in statistical analysis using SPSS software. All students in the class will also be expected to have an active email account, as many of the course assignments and test preparation materials will be made available only via email. There may be some use of WebCT, as well. More details on that will be provided as the semester progresses.

If you are a student with a disability and you need academic accommodations, please see me and contact the Disability Resource Center (DRC) at 703-993-2474. All accommodations must be arranged through that office.