Psychology 101
Fall 1998

Psychology 101: Research and Data Analysis in Psychology
Instructor: L. Sands, Ph.D.
3435 Tolman Hall
642-7093
Office Hours: Fridays 8:30-9:30 a.m.

Times: Tu-Th 2:00-3:30pm
Location: 100 Lewis
Sections/Labs: Sections begin the week of August 31

All Sections/Labs located in 5316 Tolman Hall

W 9-11 Lani Shiota
W 11-1 Lauren Bargout-Stein
W 1-3 Lani Shiota
Th 9-11 Rick Fullerton
Th 11-1 Rick Fullerton
F 9-11 Lauren Bargout-Stein
M 11-1 Cynthia Barkley
M 1-3 Cynthia Barkley

Text: Howell, D.C. Fundamental Statistics for the Behavioral Sciences (4th edition)

Purpose of the course: In one semester, the student will become literate in the most common methods of scientific investigation in the social sciences. Specifically, the student will understand how to formulate research questions, specify hypotheses, choose appropriate samples and experimental designs, evaluate the properties of instruments used to measure psychological traits, perform basic data analysis, understand power, and clearly and fairly interpret the results of an investigation.

Course Requirements:

1) attend lectures	
2) return homework on time and participate in section computer labs	10%
3) first midterm (one page of notes, four function calculator)	20%
4) second midterm (one page of notes, four function calculator)	20%
5) research paper (approximately 5-7 pages)	20%
6) final exam (one page of notes, four function calculator)	30%

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Course Schedule

8/25 Statistics: Basic Concepts Research Project: Research Question	8/27 Statistics: Notation, Displaying Data Research Project: Research Question
9/1 Statistics: Mean, Median, Mode Research Project: Significance of Project	9/3 Statistics: Measures of Variability Research Project: Significance of Project Section: Homework 1 & Research Question due
9/8 Statistics: Types of Distributions Research Project: Convincing the Judges	9/10 Statistics: Probability Research Project: References Section: Homework 2 due
9/15 Statistics: Probability Research Project: Types of Studies	9/17 Statistics: Hypothesis Testing Research Project: Types of Studies Section: Homework 3 & Outline of Significance due
9/22 Statistics: Hypothesis Testing Research Project: Specifying the Hypotheses	9/24 Statistics: Hypothesis Testing, Review Research Project: Specifying the Hypotheses Section: Homework 4 due
9/29 **MIDTERM 1**	10/1 Statistics: Correlation Research Project: Specifying Populations Section: Statement of Hypotheses due
10/6 Statistics: Correlation and Regression Research Project: Specifying Samples	10/8 Statistics: Regression Research Project: Choosing Measures Section: Homework 5 due
10/13 Statistics: Means Testing, 1 Sample Research Project: Properties of Measures	10/15 Statistics: Means Testing, 2 Samples Research Project: Reliability and Validity Section: Homework 6 & sample description due
10/20 Statistics: Means Testing, 2 Samples Research Project: Data Collection	10/22 Statistics: Means Testing, 2 Samples Research Project: Treatment of Subjects Section: Homework 7 & description of measurements due
10/27 Statistics: Power Research Project: Power	10/29 Statistics: Power Review for Midterm 2 Section: Homework 8 due
11/3 **MIDTERM 2**	11/5 Statistics: ANOVA Research Project: Reporting Data Section: Description of Data Analysis due
11/10 Statistics: ANOVA Research Project: Reporting Data Analyses	11/12 Statistics: ANOVA Research Project: Reporting Results Section: Homework 9 due
11/17 Statistics: ANOVA Research Project: Drawing Conclusions	11/19 Statistics: Chi-Square Research Project: Other explanations for results Section: Homework 10 due
11/24 Statistics: Chi-square	11/26 THANKSGIVING
12/1 Statistics: Mann-Whitney **Research Projects Due**	12/3 Review Section: Homework 11 due