Data Analysis in Psychology

Course Information

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Texts: Forrin, B. <u>Data analysis in psychology: supplements and problem sets</u> (1993 ed.). Scarborough College Bookstore. (DAP)

Howell, D. C. <u>Statistical methods for psychology</u> (3rd ed.). Boston: PWS-Kent, 1992. (SMP)

Course Outline

Week	Topic	SMP
	PART ONE: DESCRIPTIVE STATISTICS	
1	Unit I: Introduction to Data Analysis 1. Statistics and scientific inquiry *2. A basic skill: summational notation	1-13 28-30
2-3	Unit II: Frequency Distributions and their Characteristics *1. Empirical frequency distributions *2. Graphic representations of distributions *3. Measures of central tencency (location) *4. Measures of variability (dispersion)	14-15 15-28 30-35 35-54
4	Unit III: Locating Individual Scores 1. Percentiles and percentile ranks 2. Linear transformations 3. z-scores and the standard normal distribution	54 52-56 64-76
	PART TWO: INFERENTIAL STATISTICS	
5-6	Unit IV: Foundations of Inferential Statistics 1. Basic concepts of hypothesis-testing *2. Elementary probability theory 3. The binomial distribution	79-95 98-110 110-115
7	Unit V: Tests concerning Proportions in 2-Category Populations *1. Binomial test of a true proportion *2. Sign test of difference between matched groups *3. Normal approximation to exact binomial probabilities	115-116 117