

Meichu Chen 11/19/2003

## **STATISTICAL ANALYSIS**

(Preliminary Syllabus)

Course Objectives: This course is to familiarize students with basic statistical tools that behavioral and social scientists commonly use and to apply these techniques to real world problem solving. Students will learn to use SPSS software to carry out hands-on exercises and interpret outputs.

Required Statistical Background: **None**

### **Required Textbooks:**

Salkind, Neil J. 2000. *Statistics For People Who (Think They) Hate Statistics*. Thousand Oaks, CA: Sage Publications

### **Schedule, Topic, and Reading:**

2/12/04: Introduction: Get to know the tools of the tools (Introduction, Ch. 1, and Appendix A)

2/19/04: Measure of Central Tendency (Ch. 2)

2/26/04: Measure of Variability and Visual Illustration of Data (Ch. 3, 4)

3/04/04: Measure of Association (Ch. 5)

3/11/04: Prediction and Regression (Ch. 6)

3/18/04: Hypothesis Testing (Ch. 7)

3/25/04: Probability (Ch. 8)

4/01/04: Spring Break

4/08/04: Concepts of Significance (Ch. 9)

4/15/04: Mid-term Exam

4/22/04: t-tests (Ch. 10)

4/29/04: t-tests continue (Ch. 11)

5/06/04: Analysis of Variance (Ch. 12)

5/13/04: Testing Correlation Coefficients (Ch. 13)

5/20/04: Non Parametric Tests (Ch. 14)

5/27/04: More Advanced Procedures (Ch. 15)

6/03/04: Data Collection (Ch. 18)

6/10/04: Summary and Conclusion

6/17/04: Final Exam