Master Syllabus

STA 3163L Intermediate Statistics Laboratory
Department of Psychology
Florida Atlantic University, Boca Raton, FL

Course Prerequisites and/or Corequisites (if any)
PSY 1012 General Psychology
PSY 3234 Experimental Design and Statistical Inference

Course Lecture-Lab-Credit and/or Contact Hours
Lab Course, 1 credit hour
Gordon Rule course for computational skills

Includes Lab?  _X__ Yes  ___No

Lab Fee?  ___Yes  _X__No

Special Facility or Equipment Needs
Computer lab equipped with SPSS required; textbooks and other student materials to be specified by instructor.

Recommendations for Teaching Assistants
No TAs are utilized for this course.

Course Objectives
To be provided by working group.

Course Outline of Topics (Sequence & specifics may vary by instructor)
I. Data entry and labeling of variables
II. Data management, such as forming composite variables
III. Central tendency and variability
IV. Frequency distribution and graphical presentation of data
V. Independent sample t-test
VI. Dependent sample t-test
VII. One-way independent sample ANOVA
VIII. One-way dependent-sample ANOVA
IX. Two-way ANOVA using between participant independent variables
X. Correlation and simple regression
XI. Non-parametric statistics, including at least one chi-square test

Course Learning Objectives
Students will demonstrate an understanding of the following concepts through their performance on course projects:

1. Use SPSS statistical package
2. Enter data properly into database
3. Select, plan, and conduct appropriate statistical analyses on sets of data using SPSS

A final course project will be completed in which students will demonstrate their ability to:
1. Conduct the appropriate statistical analyses on a set of data (including at least one inferential statistical analysis)
2. Communicate the scientific conclusions that may be drawn from appropriate statistical analyses in:
   a. Written form following APA style
   b. Tabular form following APA style
   c. Graphical form following APA style

**Rubric for Grading Research Papers**

The grading of the final project will be based 50% on the inferential component and 50% on the descriptive component.

The grading rubric is to be created by the working group for this course.