# 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
PSY3234 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 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.