**Texas A&M International University**
**College of Arts and Sciences**
**Department of Behavioral Sciences**

**Basic Stats for Psyc Lab (PSYC: 2117-1L5)**
**F 11:30 AM -12:20 PM PH 219**

Instructor: Omar García
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Telephone: 956-326-2475
Office: CH 302
Office Hours: TBA

**Required Texts:**

Aron, A., Coups, E. J., Aron, E. N. (2011). *Statistics for the behavioral and social sciences: A brief course* (5th ed.). Upper Saddle River, NJ: Prentice Hall. (ISBN-10: 0205797253)

Aron, A., & Aron, E. N. (2011). *Study guide and computer workbook for statistics for the behavioral sciences: A Brief Course* (5th ed.). Upper Saddle River, NJ: Prentice-Hall. (ISBN-10: 0205797296)

Huff, D. (1993). How to lie with statistics. New York, NY: W. W. Norton & Company Inc. (ISBN 978-0-393-31072-6)

Salkind, N. J., & Green, S. (2011). SPSS Quick Starts. Prentice Hall: Boston. (ISBN-10:0205735770)

**Course Description:**
The basic statistics laboratory for Psychology is designed to help students cover and reiterate topics that are discussed in Psychology Statistics 2317. The course will consist of written assignments and computer assignments for students to practice statistics. Areas that will be covered include measures of central tendencies, graphs, descriptive statistics, co relational and experimental statistics. The concurrent enrollment for this class includes Psyc 2317 Basic Statistics for Psychology. Co-requisite: 2317.

**Learning Outcomes:**

**1).** An understanding of the statistical methods used in research.
**2).** The significance of statistical procedures used and when to apply certain methods to appropriate computations.
**3).** Knowledge and comprehension on how to explain statistical results and methods used.
**4).** A preparation for advanced courses in research design and statistics.

**Methods of Learning:**

**1).** Reading the assigned material, and paying close attention to problems discussed in the book.
**2).** Attending lectures and asking questions on problems or procedures that need clarification.
**3).** Taking notes and coming prepared to class.
**4).** Practicing statistical problems is a helpful way of comprehending the material, so practice sample problems discussed in lectures and in the text book.
**5).** Studying for exams and completing the assignments.

**POLICIES OF THE COLLEGE OF ARTS AND SCIENCES**

**Extra Credit:**
There will be extra credit given to students who participate in any ongoing research or experiments with any Psychology faculty. There must be written proof that you attended in order to receive credit. A total of 15 points will be given for extra credit.

**Course Grade Summary:**
Assignments: 40%
Quizzes: 40%
Attendance: 20%

**Course Evaluation:**
**Assignments:** Weekly assignments will consist of SPSS problems derived from the handbook. Assignments will be assigned on Lab days and to be turned in the following week.

**Quizzes:** Quizzes will consist of questions derived from the lab handbook and on statistical computations covered in class.

**Attendance:** Please attend class every lab because there will be weekly assignments given and it gives students the opportunity to ask questions if necessary.

**Course Schedule:**

**Part 1: Descriptive Statistics**
**AUG 26:** Introduction/ Chapter 1: Frequency Tables and Graphs
**SEPT 2:** Chapter 1: Describing Distributions; Chapter 2: Mean, Variance, Standard Deviation and Z scores.
**SEPT 9-16:** Chapter 3: Correlation and Prediction

**----------SEPT 21: Exam 1. Chapter 1-3----------**

**Part II: Basics of Inferential Statistics**
**SEPT 23-30:** Chapter 4: The Normal Curve, Sample vs. Populations, Probability
**OCT 7:** Chapter 5: Hypothesis Testing
**OCT 14-21:** Chapter 6: Hypothesis Testing with Means of Samples
**OCT 28** Chapter 7: Power and Effect Size/I/II Making sense of Statistics

**----------OCT 31: Exam 2 Chapter 4-6----------**

**Part III. T-Tests**
**NOV 4 - 11:** Chapter 8: Introduction to the t-test: Single Samples and dependent means.
**NOV 18 :** Chapter 9: T-test for independent means.

**----------NOV 21: Exam 3 Chapters 8-9----------**

**Analysis of Variance (ANOVA): Parametric Statistics Cont...**
**NOV 25:** Chapter 10: Analysis of Variance
**DEC 2:** Chapter 11: Chi square Tests

**----------Final Exam DEC 14 at 8:00 AM----------**