Psyc 1303: Statistical Methods
CRN: 22186
Meets: TR 6:00 p.m-7:20 p.m. in Psyc 306

Instructor: Randy Taylor
Contact: rstaylor@miners.utep.edu
Office hours: Psyc 209, TR 5:00-6:00 or by appointment


Course Objective:
The purpose of this course is to provide an introduction to the statistical methods commonly used in the behavioral sciences. The course will introduce statistical procedures and concepts in as practical a manner as possible by utilizing concrete examples from popular areas of research (mainly psychology). Statistical theory and practice is integral in all areas of psychology (as well as most of the behavioral sciences) and this course will provide you with an understanding of the basic procedures and theory utilized throughout the field. Upon completion of this course you should be able to calculate a variety of statistical analyses and also understand the reasoning behind the use of those procedures in the behavioral sciences.

Grading:
Your final grade will be based on three exams (each worth 30%) and a variety of homework/in class assignments (10%). Each of the first two exams will cover only the material from the time period leading to that exam. The final exam will be cumulative. All exams will be open book/open notes (This does not mean you need not study). Homework and class assignments will be used to provide additional practice on the material being covered and will be graded based on effort put into the assignment (ie completing all problems, showing all work etc). Homework assignments will be given on Thursdays and will be handed in on the following Tuesday.

Grading Scale: A= 90-100, B= 80-89, C= 70-79, D= 60-69, F= 59 and below

Policies:

Academic Honesty: Students are expected to know and follow University policy regarding academic dishonesty (including but not limited to cheating, plagiarism and collusion). Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Disabilities: We will happily make reasonable accommodations for students with limitations due to disabilities. If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support
Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

**Late work:** Late work will not be accepted.

**Etiquette:** Please refrain from any behavior that would be considered distracting to either your fellow students or the instructor. This includes but is not limited to chatter during lecture, texting/talking on your cell phone and web browsing.

**Grading Disputes:** If you wish to dispute a grade you may submit a written grade dispute to the instructor. The request must contain a description of why you feel you should have received a different grade and be submitted with the original assignment. The instructor will review your submission and make a decision in a timely manner.

**Information on this syllabus:** The instructor reserves the right to modify information on this syllabus and class schedule given that reasonable notification of the change is given to the students and that the change does not unfairly disadvantage the students.

**Schedule:**

*Schedule is subject to change based on progression through the material*

01/21: Review syllabus, course overview

01/23: The role of statistics/experimentation in behavioral sciences, frequency distributions

01/28: Graphic representation, central tendency

01/30: Variability

02/04: Normal distribution, standard scores

02/06: Correlation

02/11: Correlation, Regression

02/13: Regression, probability

02/18: Sampling distributions

02/20: Hypothesis testing, one sample z test

02/25: one sample z test, estimation, intervals
02/27: Exam 1

03/04: One sample t test

03/06: One sample t test

03/18: Independent samples

03/20: Independent samples

03/25: Independent samples

03/27: Dependent samples

04/01: Dependent samples

04/03: course drop deadline (04/04), Statistical power

04/08: Exam 2

04/10: One way anova

04/15: One way anova

04/17: One way anova

04/22: One way anova

04/24: Chi square, frequency

04/29: Chi square, frequency

05/01: Chi square, frequency

05/06: Chi square, frequency

05/08: Review

05/15: final exam 7:00 pm-9:45 pm