PSYC 1303: Statistical Methods
Term: Fall 2015
MWF – 6:00pm – 7:20pm
Location: College of Business Administration Room 321

Instructor: Scott Frankowski, M.A.
Office: Psychology Building, Rm. 311
Office hours: Friday 11am – 1pm and by appointment
E-mail: sdfrankowski@miners.utep.edu
Text: David Freedman, Robert Pisani, and Roger Purves (2007). *Statistics* (4th edition). New York: W. W. Norton & Company ISBN: 978-0-495-80891-6
TA: TBA
Other: Please bring a calculator to class. Phones can be used, but typically aren't that great. I recommend a TI-34 (less than $20). Phones CANNOT be used as a calculator on quizzes and exams.

Course Objective: To understand and gain an appreciation for the basic concepts of descriptive and inferential statistics, and to gain competency in the use of statistical software, as applied to research in psychology.

BlackBoard
I will use BlackBoard to post class materials, assignments, and grades. It is very important that you check BlackBoard at least every day before class. I will also set up a discussion forum on BlackBoard for students to ask questions or discuss concepts. If you have trouble accessing BlackBoard, please let me know ASAP and also contact tech support.

Exams: There will be 3 exams (including a **partially cumulative final**). Each exam will be worth 20% of your grade. Exams will cover lecture material, which will be taken from the text. Each exam will consist of multiple-choice and short answer questions, and statistical calculations. I will try to review the format and points of the exams a week before the scheduled exam. During the exams, you will be allowed ONE 8" X 11" HAND WRITTEN CRIB SHEET. Rules about what this sheet can and cannot contain are listed below. You will NOT be allowed to use your book.

If an exam is missed, make-up exams will only be allowed under rare, extenuating circumstances, and need to be approved by the instructor prior to the exam date. No re-takes will be given. If you know you will miss an exam for a university sanctioned event, you need to make arrangements to take the test ***beforehand.***

Crib Sheets Rules:

1. Hand-written practice problems you have previously solved from the book including homeworks.
2. Examples we have worked out in class are fine.
3. Any other notes from class you have, as long as they have been re-created. DO NOT photocopy your notes or any handouts from class and put them onto an 8X11 sheet.

       a. **Hand-write everything**.
4. Formulas are allowed.
5. Conceptual points are OK too, as long as they are re-created from the class notes and/or textbook.
6. Crib sheets must be turned in with the exam.

***Note on Crib Sheets:** The reason that I allow crib sheets is because it is an important part of the studying process. This is the reason I want you to hand-write and re-create everything on your notes you may use from the book or class notes. Furthermore, solving other problems that were not on the homework will force you to re-work the same statistical concepts in different contexts. Lastly, I don't believe in memorizing formulas. You should be concerned about the mechanics of the formula and the application of it. Thus, I strongly suggest writing all formulas for hand calculations that you will need on your crib sheet. *If you do not follow the above rules for crib sheets (e.g., if you include photocopied materials) you will receive a 0 on the exam.*

Quizzes: Quizzes will cover material from lecture and readings. There will be 10 quizzes each worth 2% of your final grade (20% total). *Make-up quizzes are not allowed unless you contact me **prior** to class with a valid reason for missing class or the quiz.*

Assignments: There will be 4 graded homework assignments in this class. These assignments will emphasize the use of SPSS and Microsoft Excel.

SPSS: SPSS is a commonly used statistical program. SPSS can be accessed on the my.apps.utep.edu page. You'll have to either access SPSS on your own computer or the university computers. If you have trouble accessing the program, you will be responsible for contacting tech support and resolving the issue. For all homework assignments, I will include an SPSS component. This will provide you with the opportunity to become familiar with the basic functions of the program and learn how to read statistical output. This will be good practice for the Advanced Stats course. Students who do well in the course should also add SPSS as a skill to their resume and curriculum vitae.

Late assignments are not accepted. All homework must be turned in at the beginning of class, no exceptions. If you won't be attending class when an assignment is due, you must turn it in to my mailbox prior to class.

Reading: Please read the chapters corresponding to the class lecture before the day of the class. Quizzes may cover chapter material that is not covered in lecture (especially if it seems that nobody is reading the material before class).

Cheating and Plagiarism: DON'T DO IT. Cheating and plagiarism **will not be tolerated**. If you are caught cheating (or even suspected of cheating) during an exam (e.g., looking at your notes, cell phone, book, or laptop, sharing answers with a classmate, looking at someone else's answers, or talking during an exam) you will receive an automatic 0 on the exam and I will . All books, electronic devices, notes, etc. are expected to be put away during exams.

Further, all work turned in for a grade should be YOUR OWN. Working in study groups is encouraged, but copying answers is not ok.

I am required to report any incident immediately to the Dean of Students for review per University policy and this usually results in disciplinary action. Please DO NOT put yourself in this situation. If you have a question during an exam, please raise your hand for assistance.

Attendance: Don't miss class. If you miss class, don't ask me if you missed anything – catch up with a classmate. Lectures will typically be posted to Blackboard; however, there is no guarantee on when the lectures will be posted. Furthermore, if attendance is poor, I *will not* post lectures. Depending on how attendance is overall, I will make sure to award those who consistently show up to class.

Extra Credit: You will be allowed to participate in up to 7 hours of research experiments. Every hour of participation will result in one percentage point (5 points, 1%) added to your *final grade*. Thus, you have the opportunity to gain a 7% "boost" to your final grade.

Announcements and sign-ups will be posted on UTEP's Research Participation System located at **http://utep.sona-systems.com/.** To register, go to the website and click on "Request an account here" in the bottom left-hand corner. Be sure to select my name as your instructor to assign your credit to this course.

Course Drop Deadline: October 30th - this is a strict deadline determined by the university. I will not drop anyone from the course for poor performance (this is your responsibility). If you are considering dropping the course, I would be happy to meet with you to discuss your options.

Final Grades

Exams: 60% of final grade (there will be 3 exams including the final).

Quizzes: There will be 10 quizzes worth 20% of your final grade

Homework: 20% of final grade (there will be 4 assignments, some assignments may be worth more than others depending on the complexity of the assignment).

Extra Credit: I will add 1% to your final grade for every hour of research in which you participate (maximum of 7%).

Grading Scale*
89.5% - 100% = A
79.5%% - 89.4% = B
69.5% - 79.4% = C
59.5% - 69.4% = D
00% - 59.4% = F

Courtesy Rules

Tardiness: Occasional tardiness is understandable – people have children, jobs, traffic happens, etc. Systematic or consistent tardiness is rude. Please don't do it. If you have to leave class early or know you will have to arrive late, please just let me know.

Cell phones: Put them on silent/vibrate or turn them off. If a phone call is important, please step out of class to take it. If a text message is urgent, answering it in class is acceptable (there may even be occasions where I will have to respond to a call or text message. It happens). Keep in mind, however, that consistent use of a cell phone during class communicates to me that you do not care about the material I am presenting. If that's the case, feel free not to come to class.

Talking: Please don't talk in class. I understand that with material like statistics you may, on occasion, lean over and ask your neighbor a clarification point. This is fine, but keep in mind that if you have a question, someone else probably does as well, so asking it in public is a good idea. If you are a disruption to class, I reserve the right to ask you leave.

Other Information

Disabilities: If you have a disability requiring special assistance please contact Disabled Student Services at 747-5148. They will give you the proper paperwork to turn in to me.

Contacting Me: Please e-mail me with ample time to respond. If it's important, or about setting up an appointment, e-mail me 12-24 hours in advance if possible. Understandably, if it's an emergency that comes up last minute, please still e-mail me. I promise to do my absolute best in responding to all e-mails within 24 hours of receiving it. **I will not take any phone calls from students** in order to keep a written record of all correspondence.

Come to class prepared to learn. I will promote a positive learning environment and I expect you to do the same. Please feel free to ask questions at any time and come see me or the TA during our office hours. My goal is to have you leave my class with an appreciation for research and statistics. Remember, we are working together for you to learn a topic that is new to you. It is my job to present the material in a way that facilitates your learning; it is your job to learn it.

There will be weekly quizzes unless otherwise noted. THIS SCHEDULE IS VERY TENTATIVE. WE WILL PROBABLY MOVE QUICKLY THROUGH SOME STUFF AND MORE SLOWLY THROUGH OTHER STUFF.

Tuesday, Sept 8th	Reading #1: Freedman et al., pages 31-56.
	Chapter 3. The Histogram.
Tuesday, Sept. 15th	Reading #2: Freedman et al., pages 57-77.
	Chapter 4. The Average and the Standard Deviation.
Tuesday, Sept. 22nd	Reading #3: Freedman et al., pages 78-96.

Chapter 5. The Normal Approximation for Data.
Homework #1 due

Tuesday, September 29th   Standard errors and Confidence intervals

Thursday, October 8th   FIRST MIDTERM EXAM

Tuesday, October 13th   T-tests

Tuesday, October 20th   T-tests
Homework #2 due

Tuesday, November 3rd   Correlation
Skip section 11.5 "Using the normal curve inside a Vertical Strip"

Tuesday, November 10th   Regression
Homework #3 due

Thursday, November 19th   SECOND MIDTERM EXAMINATION

Tuesday, 24th   NO CLASS THIS WEEK

Tuesday December 1st   ANOVA – final exam review on Thursday of this week.
Homework #4 due on Thursday
Thursday, Dec. 10th at 7pm – 9:45pm – FINAL EXAM.