Disclaimer
This syllabus is current and accurate as of its posting date, but will not be updated. For the most complete and up-to-date course information, contact the instructor.

Instructor Information
Dr. David A. Huckaby
Office: MCS 219D
Phone: 325-486-5434
Email: david.huckaby@angelo.edu

Tests
We will have three tests and a cumulative final examination. The exact dates and coverage of these tests will be announced in emails and posted to Blackboard; however, as a planning guide, you may expect to take the first test the fifth week of the semester, the second test the ninth week of the semester, and the third test the thirteenth week of the semester. The final exam will be held during the first part of the finals period.

There are no make-up exams. To compensate for unavoidable circumstances, however, if it helps you, I will replace your lowest exam score with your final exam score.

Daily Work
Daily work will consist primarily of traditional homework problems completed on a computer-based system. Late work is not accepted. To compensate for unavoidable circumstances, however, I will drop your lowest six homework scores.

Calculations
Your score on homework will count 10%, each test 20%, and the final exam 30% (50% if it replaces your lowest test grade). Then 90 and above is an A, 80-89 is a B, 70-79 is
a C, 60-69 is a D, and less than 60 is an F. I reserve the right, however, to adjust grades upwards from these percentages.

Student Learning Outcomes
1. Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in statistics including definitions of sampling methods; Chebyshev and Empirical Rules; probability; nonparametric methods; power; and residua.
2. Students will identify and apply the laws and formulas that result directly from the definitions; for example, calculating probabilities; performing nonparametric methods; performing inferential methods for standard deviation; performing ANOVA and related methods.
3. Students will use the facts, formulas, and techniques learned in this course to calculate probabilities; find confidence intervals; and perform hypothesis tests.
4. Students will acquire a level of proficiency in the fundamental concepts and applications necessary for further study in academic areas requiring statistics as a prerequisite, or for work in occupational fields requiring a background in statistics.

Subject Matter
We will be studying the basics of descriptive statistics, probability, and inferential statistics.

The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor.

Following are the tentative topics for each numbered course day:

1. Introduction
2. Introduction
3. Sampling Methods
4. Experimental Designs
5. Misleading Graphs
6. Chebyshev and Empirical Rules
7. Joint and Marginal Probabilities
8. Conditional Probability
9. Multiplication Rule
10. Bayes’ Rule
11. Bayes’ Rule
12. Counting Rules
13. Review
14. Exam
15. Binomial Distribution
16. Poisson Distribution
17. Normal Approximation to Binomial
18. Wilcoxon Signed-Rank Test
19. Type-II Error Probabilities; Power
20. Choosing a Procedure (one mean)
21. Mann-Whitney Test
22. Independent Paired Sample Test
23. Paired Wilcoxon Signed-Rank Test
24. Choosing a Procedure (two means)
25. Review
26. Test
27. One Standard Deviation Test
28. Two Standard Deviations Test
29. Two Population Proportions Test
30. Regression Model; Analysis of Residuals
31. Slope of Regression Line Test
32. Estimation and Prediction
33. Correlation Test
34. ANOVA
35. ANOVA
36. Review
37. Test
38. Multiple Comparisons
39. Kruskal-Wallis Test
40. Review
41. Review
42. Review
43. Review

Required Texts or Readings

Office Hours

Monday: 8:15-12:00, 1:00-2:30
Tuesday: 9:00-11:00
Wednesday: 8:15-10:00
Thursday: 9:00-10:00
Friday: (by appointment)

ASU Statements
Student Disability Services

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu

Title IX at Angelo State University
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.  
Director of Title IX Compliance/Title IX Coordinator  
Mayer Administration Building, Room 210  
325-942-2022  
michelle.boone@angelo.edu

You may also file a report online 24/7 at Title IX Incident Form

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.
For more information about Title IX in general you may visit the ASU Title IX website.

Student Absence for Observance of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. (Observance of Religious Holy Day)

Incomplete Grade Policy
It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Conduct Policies
Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the Statement of Academic Integrity.

Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity Policy in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

Copyright Policy

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

General Policies Related to this Course
All students are required to follow the policies and procedures presented in these documents:

- **Angelo State University Student Handbook**
- **Angelo State University Catalog**

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i mailto:david.huckaby@angelo.edu
ii mailto:david.huckaby@angelo.edu
iii http://www.angelo.edu/incident-form
iv https://www.angelo.edu/current-students/title-ix/
v https://angelo.policystat.com/policy/10659368/latest/
vi https://angelo.policystat.com/policy/10659448/latest/
ix https://www.angelo.edu/current-students/writing-center/academic_honesty.php
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