

# Math 3321 Statistics

## Summer I 2022 Syllabus

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### 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: 486-5434

Email: [david.huckaby@angelo.edu](mailto:david.huckaby@angelo.edu)

### Tests

We will have a midterm exam and a cumulative final examination. Both exams will be on the honor system. The exact dates and coverage of these tests will be posted to Blackboard; however, as a planning guide, you may expect to take the midterm exam the third week of the term.

There are no make-up exams. To compensate for unavoidable circumstances, however, if it helps you, I will replace your midterm 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%, the midterm exam 40%, and the final exam 50% (90% 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 measures of central tendency; standard deviation; standardized variable; regression line; coefficient of determination; normally distributed variable; sampling distribution of the mean; sampling distribution of the proportion; point estimate; confidence interval estimate; null hypothesis; alternative hypothesis; critical value; and test statistic.
2. Students will identify and apply the laws and formulas that result directly from the definitions; for example, calculation of measures of central tendency; standard deviations; coefficients of determination; critical values and test statistics. Additionally, students will apply theorems such as the Central Limit Theorem.
3. Students will use the facts, formulas, and techniques learned in this course to find regression equations for data collected; use regression equations to make predictions; calculate probabilities; find confidence intervals for means and proportions; and perform a variety of hypothesis tests.
4. Students will use appropriate packages to solve problems in both descriptive and inferential statistics. Additionally, the students will use software to represent data visually.
5. 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. Measures of Center
3. Measures of Variation
4. Five-Number Summary
5. Probability
6. Discrete Random Variables
7. Normally Distributed Variables
8. Normally Distributed Variables
9. Sample Mean
10. Confidence Intervals
11. Confidence Intervals
12. Hypothesis Tests

13. Midterm Exam
14. Hypothesis Tests
15. Confidence Intervals
16. Hypothesis Tests
17. Hypothesis Tests
18. Hypothesis Tests
19. Regression and Correlation
20. Regression and Correlation
21. ANOVA
22. ANOVA

## Required Texts or Readings

Introductory Statistics, MyLab Revision, Tenth Edition, by Neil A. Weiss.

## Office Hours

Monday: 8:15-2:15

Tuesday: 8:15-10:15

Wednesday: 8:15-10:15

Thursday: (by appointment)

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](mailto: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](mailto:michelle.boone@angelo.edu)

**You may also file a report online 24/7 at [Title IX Incident Form](#)<sup>iii</sup>**

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](#)<sup>iv</sup>.

#### **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](#)<sup>v</sup>)

#### **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](#)<sup>vi</sup> 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](#)<sup>vii</sup>.

### Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity Policy](#)<sup>viii</sup> 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](#)<sup>ix</sup>.

### 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](#)<sup>x</sup>
- [Angelo State University Catalog](#)<sup>xi</sup>

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<sup>i</sup> <mailto:david.huckaby@angelo.edu>

<sup>ii</sup> <mailto:david.huckaby@angelo.edu>

<sup>iii</sup> <http://www.angelo.edu/incident-form>

<sup>iv</sup> <https://www.angelo.edu/current-students/title-ix/>

<sup>v</sup> <https://angelo.policystat.com/policy/10659368/latest/>

<sup>vi</sup> <https://angelo.policystat.com/policy/10659448/latest/>

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- vii <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>
- viii <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>
- ix [https://www.angelo.edu/current-students/writing-center/academic\\_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
- x <https://www.angelo.edu/current-students/student-handbook/>
- xi <https://www.angelo.edu/academics/catalog/>