Contact Information:

• Instructor: Jesse Taylor
• Office: MCS 219E
• Email: jesse.taylor@angelo.edu
• Our Classroom: MCS 110
• Meeting Times: 10:00 - 10:50am MWF
• Office Hours:
  o Monday: by appointment
  o Tuesday: 8:00-11:00, 12:15-12:45
  o Wednesday: by appointment
  o Thursday: 8:00-11:00, 12:15-12:45
  o Friday: 12:00-3:00
  o If the above times do not work please email me to set up another time to meet

Required Textbook


Course Content

Selected sections from chapters 1-16 will be covered, as well as additional topics as time permits.

Homework

All homework in this class will be done online with MyStatLab. To register, go to www.mystatlab.com and click on the “STUDENT” button under “Register Now” on the right side of the screen. You must register using your ASU email account. The course ID for our class is taylor02867.

You will also need an access code, which should have come with your textbook. If you do not have an access code, you can purchase one online through the MyStatLab website. We will have one or two homework assignments from each chapter covered in the textbook.

Please do not wait until the last minute to complete your homework assignments. Technology-based systems are sometimes unavailable and no late homework will be accepted.

Quizzes

We will have occasional quizzes throughout the semester. Generally quizzes will be on Friday and will consist of a couple of problems. They should not take more than 10 minutes to complete. No late quizzes will be accepted, regardless of whether or not you attend class. It is always your responsibility to attend class and know when an assignment is due and to make sure it is turned in or taken on time.

Tests

We will have three tests and a cumulative final exam. Below is a table containing the schedule for our tests, which is subject to change. If you have a conflict with one of the tests you must let me know at least one week before the test is taken to ensure that you receive a make-up exam. The earlier you let me know, the better.
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<thead>
<tr>
<th>Test</th>
<th>Material Covered</th>
<th>Date</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>Chapters 1-5</td>
<td>February 16</td>
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<tr>
<td>Test 2</td>
<td>Chapters 6-9</td>
<td>March 23</td>
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<tr>
<td>Test 3</td>
<td>Chapters 10-16</td>
<td>April 27</td>
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<tr>
<td>Final Exam</td>
<td>Cumulative</td>
<td>10:30-12:30pm, Monday May 7</td>
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**Grading**

Your grade in this class will be determined based on the following grading rubric.

- Homework/Quizzes: 15%
- Test 1: 20%
- Test 2: 20%
- Test 3: 20%
- Final Exam: 25%

Your final letter grade in this class will be determined based on a ten-point grading scale.

**Attendance**

Attendance will be taken regularly, and each student’s absences will be reported with their final grade at the end of the semester.

**Technology**

Unless you have special accommodations documented with the Student Life office, no cell phones, tablets, laptops, games, or other electronic devices may used at any time during class.

**Study Aids**

- Feel free to come by my office for help. I will be in or near my office during office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, email me or speak with me during class to arrange another time that is more convenient.

**Notes**

- If the university is unexpectedly closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class day.
- All electronic correspondence will be sent to your ASU email account unless other arrangements are made.
- Good luck. I want you to succeed in this course. If at any point during the semester you feel as if you do not understand the material, please come talk with me as soon as possible. An ounce of prevention is worth a pound of cure.
- All items and dates in this syllabus are subject to change as the semester progresses. Students will be notified in class of any changes, and the changes will not be updated within this syllabus.
Mathematics 1324 – Finite Mathematics I

Student Learning Outcomes

1. **Students will demonstrate factual knowledge including the mathematical notation and terminology used in this course.** 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 describe the fundamental principles including the laws and theorems arising from concepts covered in this course.** 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 apply course material along with procedures and techniques covered in this course to solve problems.** 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 available statistical software packages to solve problems.** 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 develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related fields.** 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.

Course Content

Textbook: *Introductory Statistics*, tenth edition, by Neil A. Weiss, with MyStatLab access. The following chapters, including the particular sections listed, are covered.

1. **The Nature of Statistics.** Classifying statistical studies; sampling procedures.
2. **Organizing Data.** Grouping data; graphs and charts; distribution shapes; misleading graphs.
3. **Descriptive Measures.** Mean; median; mode; standard deviation; quartiles; percentiles; deciles; boxplots.
4. **Probability Concepts.** Events; conditional probability; Bayes’ formula; counting.
5. **Discrete Random Variables.** Mean and Standard Deviation; binomial and Poisson distributions.
6. **The Normal Distribution.** Areas under the standard normal curve; normally distributed variables; normal probability plots.
7. **The Sampling Distribution of the Mean.** Sampling error; mean and standard deviation of the sampling distribution of the mean.
8. **Confidence Intervals for One Population Mean.** Calculate confidence intervals for the mean; margin of error; sample size.
9. **Hypothesis Tests for One Population Mean.** Set up hypothesis tests; errors; perform hypothesis tests; P-values; type II errors; probability; the Wilcoxon signed-rank test.
10. **Inferences for Two Population Means.** Hypothesis tests; the Mann-Whitney test.
12. Inferences for Population Proportions. Calculating confidence intervals for one population proportion; performing hypothesis tests for one population proportion.
13. Chi-Square Procedures. Chi-Square Goodness-of-Fit Test; Chi-Square Independence Test.
14. Descriptive Methods in Regression and Correlation. Regression equation; coefficient of determination; linear correlation.
15. Inferential Methods in Regression and Correlation. Inferences in correlation; testing for normality.
16. Analysis of Variance. The F-Distribution, One-Way ANOVA.

Additional Topics. Multiple regression analysis; Design of experiments and analysis of variance

**Anticipated Schedule**

Below is a table containing an approximate guide to what we will cover during each week of the semester. These topics are subject to change.

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<td>21</td>
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**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

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Boone  
Director of Title IX Compliance  
325-486-6357  
michelle.boone@angelo.edu

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. The full details can be found in ASU Operating Policy OP 10.19 Observance of Religious Holy Days

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.iv.

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 Handbookv
  - Angelo State University Catalogvi

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i Observance of Religious Holy Days: http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
ii Grading Procedures: http://www.angelo.edu/content/files/14197-op-1011-grading-procedures
iii Academic Integrity: http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
iv ASU Writing Center: http://www.angelo.edu/dept/writing_center/academic_honesty.php
vi University Catalog: http://www.angelo.edu/catalogs/