Math 3321: Statistics
Fall 2017 Syllabus

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

Major Course Requirements

Tests
We will have three tests and a cumulative final examination. The exact dates and coverage of these tests will be announced in class and posted to MyLab; 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 fourteenth week of the semester. The final exam will be held as specified in the course schedule.

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 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, 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. These fields might include education, business, finance, marketing, computer science, physical sciences, and nursing, as well as further study in other statistics courses.

**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.

<table>
<thead>
<tr>
<th>Course Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
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<td>2</td>
<td>Basics</td>
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<td>3</td>
<td>Averages</td>
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<td>4</td>
<td>Measures of Variation</td>
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<td>5</td>
<td>Five-Number Summary</td>
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<td>6</td>
<td>Populations and Samples</td>
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<td>7</td>
<td>Probability Basics</td>
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<tr>
<td>8</td>
<td>Events</td>
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<td>9</td>
<td>Conditional Probability</td>
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Required Texts or Readings

Office Hours

<table>
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<tr>
<th>Monday 9-10*, 10:15-12:00, 1:15-2:30</th>
<th>Tuesday 9:00-9:30, 11-12</th>
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<tbody>
<tr>
<td>Wednesday 9-12</td>
<td>Thursday 9:00-9:30, 11-12</td>
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<td>Friday (or by appointment)</td>
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</tbody>
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*in the Math Lab, room C302 of the Library

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**  
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.  
(http://www.angelo.edu/opmanual/ -- OP 10.19)

- **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 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.  
(http://www.angelo.edu/opmanual/ -- OP 10.19)
• **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](#)