Math 1342.T30- Elementary Statistics- Spring 2021 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

<table>
<thead>
<tr>
<th>Name: Mrs. Codi Jaynes</th>
<th>Office Hours: Monday &amp; Friday 10:00 am – 12:00 pm (noon)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office: MCS 220C</td>
<td>Tuesday &amp; Thursday: 10:30 – 11:30 am &amp; 2:00 – 3:00 pm</td>
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<tr>
<td>Phone: 325-486-5446</td>
<td>Wednesday: 10:00 – 11:00 am &amp; 2:00 – 3:30 pm</td>
</tr>
<tr>
<td>Email: <a href="mailto:codi.jaynes@angelo.edu">codi.jaynes@angelo.edu</a></td>
<td>All hours listed are available online via Blackboard Collaborate. Face-to-face meetings can be arranged by appointment.</td>
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</tbody>
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This class meets MWF 1:00 – 1:50 pm and TR 12:30 – 1:45 pm in MCS 100.

Course Delivery: To maintain academic quality while accommodating social distancing needs this semester, this course is a face-to-face course with learning resources and supplemental materials posted in Blackboard.

If you have to be in isolation/quarantine or have a medical reason for not attending class and you give me advance notice, I will provide you with a link to join a class livestream at the same time as our scheduled course. You will also be expected to complete coursework via Blackboard.¹

Please refer to this Health and Safety web page² for updated information about campus guidelines as they relate to the COVID-19 pandemic.

Blackboard & Email:
- I post notes, reviews, and other documents on Blackboard. I expect you to print these documents and bring them with you to class when I tell you to. I will also post grades and other important announcements on Blackboard.
- Blackboard can be accessed through RamPort or by visiting http://angelo.blackboard.com/.
- I will frequently send you information via email. It is your responsibility to regularly check your angelo.edu email account. All communication outside of class will be sent to your ASU e-mail account. I will do my best to respond to all emails by the next business day.

Technology Requirements
To successfully complete this course, students need to have daily access to the following technology: smartphone or scanner, laptop/tablet/desktop with webcam/mic, and a printer.

Lecture Notes: It is your responsibility to print the lecture notes from Blackboard and bring them to class each day. I strongly suggest keeping your notes and other class materials in a 3-ring binder.

Attendance: Attendance will be taken daily and is mandatory for the entire class period. As seen in the grading breakdown, 6% of your final average will come from your attendance. I will drop 3 attendance grades at the end of the semester to help compensate for unavoidable circumstances. If you are going to miss class, communication via email is required by 3:00 pm on the day you miss to receive instructions to get that absence changed to being counted present.

Homework: Homework will be assigned over every section through MyStatLab software. To set up your account, go to Blackboard. To set up an account, you will need the following information:
- A valid email address (Use your angelo.edu email)
- Your student access code
You will need to pay for an access code. If you are unable to pay at the start of the semester, you may use the free 14-day trial. However, remember this free trial only lasts for 14 days! After that time, you will need to pay for the access code.

Daily work will consist of homework problems completed on a computer-based system and worksheets/textbook problem sets, submitted virtually through Gradescope. No late work will be accepted! I will drop 3 homework grades at the end of the semester to help compensate for unavoidable circumstances.

**Assessments:** There will be 11 – 14 assessments throughout the semester. The assessments will be worth 84% of your final average. Assessments will reflect the course content and be administered during class. Each assessment will be graded for accuracy with no partial credit given. Additional information regarding the assessment procedures and retakes can be found in Blackboard.

**Final Exam:** A comprehensive final exam will be Wednesday, May 12th from 1:00 – 3:00 pm. Specific details on exam delivery will be given later in the semester. The Final Exam will only influence your final grade by at most one letter. Your final average is calculated following the grading scheme below. The Final Exam will:

- Improve your letter grade by one letter if you score a 90 or above
- Leave your letter grade unaffected if you score between a 60 and 89
- Lower your letter grade by one letter if you score below a 60

**Grading:** Grades will be determined as follows:

- Homework - 10%
- Assessments - 84%
- Daily Attendance/Participation - 6%
- Final Exam- + or – one letter grade at most

**Final Averages:** Final averages will be determined using the following scale

- A: 90% or above
- B: 80% - 89%
- C: 70% - 79%
- D: 60% - 69%
- F: Below 60%

**Common Courtesy:**
Please refrain from carrying on personal conversations once class has started. Be courteous to your peers when they are responding in class by listening to what they have to say.

You are not given a grade in a college course; you EARN your grade. It is your responsibility to put in as much effort as it takes to earn this grade. This includes utilizing (as needed) all available study aid options (my office hours, the Math Lab, reading outside texts, etc.) to resolve any questions or concerns you might have about any aspect of the course.

**Drop Date:** April 30th is the last day to drop a course with a W or withdraw from ASU.

**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](#)
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 university’s Statement of Academic Integrity.

Accommodations for Students with Disabilities
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.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

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. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

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
Required Use of Masks/Facial Coverings by Students
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

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

Course Content
Textbook: *Elementary Statistics*, Ninth Edition, by Neil A. Weiss. The following chapters include the particular sections listed are covered. (See textbook “Contents”)
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. **Descriptive Methods in Regression and Correlation.** Regression equation; coefficient of determination; linear correlation.
5. **Probability and Random Variables.** Rules of probability; discrete random variables; probability distributions.
6. **The Normal Distribution.** Areas under the standard normal curve; normally distributed variables.
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.
11. **Inferences for Population Proportions.** Calculating confidence intervals for one population proportion; performing hypothesis tests for one population proportion.

**Subject Matter:** The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor or see Blackboard.

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Syllabus, course orientation, The Nature of Statistics</td>
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<tr>
<td>2</td>
<td>Organizing Data; <strong>Assessment 1</strong></td>
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<td>3</td>
<td>Descriptive Measures; <strong>Assessment 2</strong></td>
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<tr>
<td>4</td>
<td>Probability; <strong>Assessment 3</strong></td>
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<tr>
<td>5</td>
<td>Probability; <strong>Assessment 4</strong></td>
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<td>6</td>
<td>The Normal Distribution; <strong>Assessment 5</strong></td>
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<td>7</td>
<td>The Normal Distribution and Confidence Intervals for One Population Mean; <strong>Assessment 6</strong></td>
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<td>8</td>
<td>Confidence Intervals for One Population Mean and Hypothesis Tests for One Population Mean; <strong>Assessment 7</strong></td>
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<td>9</td>
<td>Hypothesis Tests for One Population Mean; <strong>Assessment 8</strong></td>
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<td>10</td>
<td>Inferences for Population Proportions; <strong>Assessment 19</strong></td>
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<tr>
<td>11</td>
<td>Descriptive Methods in Regression and Correlation; <strong>Assessment 10</strong></td>
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<tr>
<td>12</td>
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<td>13</td>
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<td>14</td>
<td>TBD</td>
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<tr>
<td>15</td>
<td>Review</td>
</tr>
<tr>
<td>16</td>
<td>Final Exam</td>
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3. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
4. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
6. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
8. [http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
9. [http://www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)