Course Information

Course Description

A survey of experimental and non-experimental methods of gathering data as well as the statistics required to analyze this data. Analyses include measures of central tendency and variability, correlation, regression, standard scores, t-tests, analysis of variance, and chi square.

Course Credits

Three Credits

Prerequisite and Co-requisite Courses

None

Prerequisite Skills

1. Using the Blackboard Learning Management System
2. Using email with attachments
3. Creating and submitting files in commonly used word processing programs (e.g. Word or Google Docs)
4. Creating and submitting files in commonly used presentation processing programs (e.g. PowerPoint or Google Slides)
# Student Learning Outcomes

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Assignment(s) or activity(ies) validating outcome achievement:</th>
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| Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories) | • Lectures  
• Exams 1, 2, 3  
• Final Exam |
| Learning to apply course material (to improve thinking, problem solving, and decisions) | • Lectures  
• In Class Discussion |
| Acquiring skills in working with others as a member of a team | • In class discussions |
| Learning to apply knowledge and skills to benefit others or serve the public good | • In class discussions |
| Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course | • Exams 1, 2, 3  
• Final Exam In class discussions |
| Learning to apply course material (to improve thinking, problem solving, and decisions) | • Exams 1, 2, 3  
• Final Exam  
• In class discussions |

## Course Delivery

This is a face-to-face course with learning resources and supplemental materials posted in Blackboard.

## Required Texts and Materials

**Text:** Research Methods and Statistics. A critical thinking approach. Edition: 5th  

**Materials:** Laptop/Computer or Tablet, Note Taking Method, #2 Pencil, Notebook or Printer Paper for homework assignments

## Grading

### Evaluation and Grades

**Cumulative Exams (65% of grade):**
There will be two exams and a final for this course. In fairness to all students, there will be no change in the scheduled date or time of the exams. The first exam (2/13/20) will be
approximately 30 multiple choice and/or true false questions and approximately 3 short answer questions. Exam 1 will cover material from lectures 1-9 and book chapters 1 through 4. The second exam (03/19/20) will be approximately 30 multiple choice and/or true false questions and approximately 3 short answer questions covering lectures 10-16 and book chapters 5 through 8. The third exam (04/09/20) will be approximately 30 multiple choice and/or true false questions and approximately 3 short answer questions covering lectures 17-21 and book chapters 9 through 11. The cumulative final exam (5/5/20) will be approximately 30 multiple choice and/or true false questions and approximately 3 short answer questions covering lectures 22-26 and book chapters 12 through 15. We will use a portion of lecture time on during the class before the exam to do an in-class review and a practice exam will be provided via Blackboard before each exam.

**Participation (15% of grade):**
You will be expected to participate in class discussions every class period. Participation will be evaluated via, in class assignments and in class discussions. Responses that are not thoughtful, helpful and contribute to the discussion in a meaningful way will receive a 0 for the day.

**Online Assignment (1% of grade):**
There will be one online assignment to replace class time (04/30/20) that will be missed due to my travel for dissertation defense. Details on how to complete this assignment will be discussed in class and posted to Blackboard on April 28th, 2020. This online assignment will be due on 5/1/20.

**Homework Assignments (19% of grade):**
There will be weekly homework assignments that you will complete. These assignments are to help ensure that you understand the materials you are reading, and we are discussing in class. These assignments will be due at the beginning of class each Tuesday and must be completed in your handwriting (i.e. not typed). Many of the questions seen in the assignments will be similar to the questions that will be on the exams, so it is in your best interest to use this as a study technique. See the schedule for homework assignments and due dates.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent/Points of Total Grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>15%</td>
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<tr>
<td>Exam 2</td>
<td>15%</td>
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<tr>
<td>Exam 3</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Participation</td>
<td>15%</td>
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<tr>
<td>Online Assignment 1</td>
<td>1%</td>
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<tr>
<td>Homework Assignments</td>
<td>19%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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</tbody>
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**Grading System**

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

- **A** = 90.00-100 points
- **B** = 80.00-89.99 points
- **C** = 70.00-79.99 points
- **D** = 60.00-69.99 points
- **F** = 0-59.99 points (Grades are not rounded up)

**Teaching Strategies**

Students are expected to be “active learners.” It is a basic assumption of the instructor that students will be involved (beyond the materials and lectures presented in the course) discovering, processing, and applying the course information using peer-review journal articles, researching additional information and examples on the Internet, and discussing course material and clinical experiences with their peers.

**General Policies Related to This Course**

All students are required to follow the policies and procedures presented in these documents:

*Lectures and Readings* - Students are responsible for all material presented in lecture or covered in assigned readings. Prior to lecture, students are expected to have read any materials assigned for the week. Lectures are not meant to reiterate all material covered in the textbook but rather will emphasize and elaborate on key issues, and introduce additional new material not covered in the textbook.

*Class & Email Etiquette* – Please be in your seats at the start of class. If you are late, please quietly take a seat in the back. If you know that you will need to leave early, please sit in the back and leave as quietly as possible. You are expected to silence your cellphone and refrain from using the internet while in lecture or discussion. It is distracting to the speaker and to those behind you! You are expected to always treat the instructor and classmates with respect. Any disrespect will not be tolerated, and you will be asked to leave. Repeated violations or dismissals will result in consultations with the instructor.

*Late or Missed Assignments* - Due dates and times for assignments are posted on the syllabus and on Blackboard. Failure to submit your homework assignments on or before the assigned date will result in a 0 for that homework assignment. Faculty reserve the right to deduct points
for late assignments that are accepted past the original due date after consultation and approval for submission with the instructor.

*Communication* - When emailing the instructor, include the class number (Psyc2321) & your full name in the subject line. Keep in mind there are many students in this class, by adding this you will help me clearly identify you. Write in clear coherent sentences in the body of the paragraph. Remember, you are not texting your friend, you are writing to an instructor for help.

*Grade Queries & Disputes* – I will try to post grades for any assignments or exams by the following week. I do my best to ensure there are no mistakes for grading, but I am human, so mistakes can occasionally happen. For first 3 exams, you will have an opportunity to review the exam during the next lecture section. If you notice a discrepancy, please respectfully request that I evaluate the discrepancy. If you wish to dispute the grading of a question, you must submit your request in writing to me no later than the Friday following the review of the exam. For example, if you want to dispute a grade on Exam 1 (taken on 2/13), you will be able to review your grade in class on February 18th and the last day to submit a grade dispute for Exam 1 will be February 21st. Be prepared to dispute the grading of the question with support from the textbook and/or lecture notes.

*Cheating* – The following rules will be in place during exams. You will be reminded the lecture before the exam and you will be reminded of all rules before the exam. **ANY** breach of the rules will result in your exam materials being removed and receiving a zero as well as being reported to the Academic Integrity Office.

- There will be no hats, smart watches, or headphones worn during exams.
- There will be no electronic devices visible (including cell phones, tablets, laptops, etc.) during exams.
- There will be no written materials (notes, lecture slides, book, etc.) visible during exams.
- There will be no talking during exams.

Angelo State University Student Handbook¹
Angelo State University Catalog²

**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 Health and Human Services adheres to the university’s *Statement of Academic Integrity*.³
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.

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. Resources to help you understand this policy better are available at the ASU Writing Center.

**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.

**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.

**Syllabus Changes**
The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student’s responsibility to look for such communications about the course on a daily basis.

**Title IX at Angelo State University**
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

Online: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
Face to face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.boone@angelo.edu

*Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).*

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix).

**Course Schedule**

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<th>Week/Date</th>
<th>Topics / Chapter Reading</th>
<th>Assessments DUE</th>
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| **Week 1 - Chapter 1 –** Thinking Like a Scientist | Tuesday 1/14/20 - Lecture 1 –
  - Introduction & Chapter Sections 1.1, 1.2, 1.3
Thursday 1/16/20 - Lecture 2 –
  - Chapter Sections 1.4, 1.5, 1.6 | • Work on Chapter 1 Homework |
| **Week 2 - Chapter 2 –** Getting Started: Ideas Resources, and Ethics | Tuesday 1/21/20 - Lecture 3 –
  - Chapter 2 - Sections 2.1, 2.2, 2.3
Thursday 1/23/20 - Lecture 4 –
  - Chapter 2 - Sections 2.4, 2.5 | Tuesday 1/21/20 – Chapter 1 Homework Due
  - Chapter Exercises (pg 25) 1, 3, 5, 7
  - Fill-In Self-Test (pg 27) - all |
| **Week 3 - Chapter 3 –** Defining, Measuring and Manipulating Variables | Tuesday 1/28/20 - Lecture 5 –
  - Chapter 3 - Sections 3.1-3.4
Thursday 1/30/20 - Lecture 6 –
  - Chapter 3 - Sections 3.5-3.8 | Tuesday 1/28/20 – Chapter 2 Homework Due
  - Chapter Exercises (pg 50) 1, 3, 5
  - Fill-In Self-Test (pg 52) - all |
| **Week 4 - Chapter 4 –** Descriptive Methods | Tuesday 2/4/20 - Lecture 7 –
  - Chapter 4 - Sections 4.1 & 4.2
Thursday 2/4/20 - Lecture 8 –
  - Chapter 3 - Sections 4.2 & 4.3 | Tuesday 2/4/20 – Chapter 3 Homework Due
  - Chapter Exercises (pg 72) 1, 3, 5
  - Fill-In Self-Test (pg 73) - all |
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| **Week 5 – Exam 1 and Chapter 5**  
– Data Organization and Descriptive Statistics  
Tuesday 2/11/20 - Lecture 9 –  
• Chapter 5 - Sections 5.1 & 5.2  
• Exam 1 Review  
Thursday 2/13/20 – **Exam 1** | Tuesday 2/11/20 – Chapter 4  
Homework Due  
• Chapter Exercises (pg 101) 1, 3  
• Fill-In Self-Test (pg 103) - all |
| **Week 6 – Chapter 6 – Correlational Methods and Statistics**  
Tuesday 2/18/20 - Lecture 10 –  
• Chapter 6 Sections 6.1, 6.2, 6.3  
• Exam 1 Review  
Thursday 2/20/20 - Lecture 11 –  
• Chapter 6 Sections 6.4, 6.5 | Tuesday 2/18/20 – Chapter 5  
Homework Due  
• Chapter Exercises (pg 138) 1, 3, 5  
• Fill-In Self-Test (pg 140) - all |
| **Week 7 – Chapter 7 – Probability and Hypothesis Testing**  
Tuesday 2/25/20 - Lecture 12 –  
• Chapter 7 - Sections 7.1  
Thursday 2/27/20 - Lecture 13 –  
• Chapter 7 - Sections 7.2 | Tuesday 2/25/20 – Chapter 6  
Homework Due  
• Chapter Exercises (pg 167) 1, 3, 5  
• Fill-In Self-Test (pg 169) - all |
| **Week 8 – Chapter 8 – Introduction to Inferential Statistics**  
Tuesday 3/3/20 - Lecture 14 –  
• Chapter 8 - Sections 8.1 & 8.2  
Thursday 3/5/20 - Lecture 15 –  
• Chapter 8 - Sections 8.2 & 8.3 | Tuesday 3/3/20 – Chapter 7  
Homework Due  
• Chapter Exercises (pg 197-8) 1, 3, 4, 5, 6, 7, 11a, 11b, 11c |
| *** Spring Break – March 8th – 14th *** | |
| **Week 9 – Exam 2 and Chapter 9**  
Experimental Designs and Analysis I  
Tuesday 3/17/20 - Lecture 16 –  
• Chapter 9 - Sections all  
• Exam 2 Review  
Thursday 3/19/20 -  
• **Exam 2** | Tuesday 3/17/20 – Chapter 8  
Homework Due  
• Chapter Exercises (pg 223-4) 1, 3, 5  
• Fill-In Self-Test (pg 225) - all |
| **Week 10 – Chapter 10**  
Experimental Designs and Analysis II  
Tuesday 3/24/20 - Lecture 17 –  
• Chapter 10 - Section 10.1  
• Exam 2 Review  
Thursday 3/26/20 – Lecture 18 –  
• Chapter 10 - Section 10.2  
***Note: 3/26/20 is the last day to drop this class.** | Tuesday 3/24/20 – Chapter 9  
Homework Due  
• Chapter Exercises (pg 252-3) 1, 5a, 5b, 5c, 5d, 5e, 5f, 5g  
• Fill-In Self-Test (pg 254) – all |
| **Week 11 – Chapter 11 – Experimental Designs and Analysis II**  
Tuesday 3/31/20 - Lecture 19 –  
• Chapter 11 - Sections 11.1  
Thursday 4/2/20 - Lecture 20 –  
• Chapter 11 - Sections 11.2 | Tuesday 3/31/20 – Chapter 10  
Homework Due  
• Chapter Exercises (pg 274-5) 1, 5a, 5b, 5c, 5d, 5e, 5f, 5g  
• Fill-In Self-Test (pg 276) – all |
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| Week 12 – Exam 3 and Chapter 12 – Experimental Designs and Analysis IV | Tuesday 4/7/20 - Lecture 21 –  
  • Chapter 12 – All  
  • Exam 3 Review  
 Thursday 4/9/20 -  
  • Exam 3 | Tuesday 4/7/20 – Chapter 11  
 Homework Due  
  • Chapter Exercises (pg 309-10) 1, 3, 9a, 9b, 9c, 9d, 9e, 9f, 11a, 11b, 11c, 11d, 11e, 11f |
| Week 13 - Chapter 13 – Quasi-Experimental and Single-Case Designs | Tuesday 4/14/20 - Lecture 22 –  
  • Chapter 13 - Sections 13.1-13.3  
 Thursday 4/16/20 - Lecture 23 –  
  • Chapter 13 - Sections 13.4-13.6 | Tuesday 4/14/20 – Chapter 12  
 Homework Due  
  • Chapter Exercises (pg 341) 1, 3, 5, 7  
  • Fill-In Self-Test (pg 344) – all |
| Week 14 - Chapter 14 & 15 – Nonparametric Inferential Statistics & APA Communication Guidelines | Tuesday 4/21/20- Lecture 24 –  
  • Chapter 14 - Sections 14.1-14.3  
 Thursday 4/23/20 - Lecture 25 –  
  • Chapter 15 – All Sections | Tuesday 4/21/20 – Chapter 13  
 Homework Due  
  • Chapter Exercises (pg 372) 1, 3, 5, 7, 9  
  • Fill-In Self-Test (pg 373) – all |
| Week 15 – Review for Final & Online Assignment | Tuesday 4/28/20 - Lecture 26 –  
  • Final Exam Review  
 Thursday 4/30/20 – No Lecture –  
  • Online Assignment | Tuesday 4/28/20 – Chapter 14 Homework Due  
  • Chapter Exercises (pg 393-4) 3a, 3b, 3c, 3d, 5a, 5b, 5c, 5d,  
 Chapter 15 Homework Due  
  • Chapter Exercises (pg 419) 1, 3a, 3b, 3c, 3d, |
| Week 16 – Final’s Week        | Thursday – May 7th – Final Exam from 8:00a.m-10:00a.m                                    |                                                                                 |

**Student Evaluation of Faculty and Course**

Students in all programs are given the opportunity to evaluate their courses and the faculty who teach them. Evaluations are most helpful when they are honest, fair, constructive, and pertinent to the class, clinical experience, or course. Faculty value student evaluations, and use student suggestions in making modifications in courses, labs and clinical experiences.

Angelo State University uses the IDEA (Individual Development and Educational Assessment) system administered through Kansas State University for all course evaluations. The Office of Institutional Research and Assessment administers IDEA for the entire university, online and has established a policy whereby students can complete course evaluations free from coercion.

End of Syllabus