Course Purpose and Learning Objectives

This course will expose the student to elementary concepts in statistics and research methods as relevant to the pursuit of psychological knowledge.

When the course concludes, students should be able to:

⇒ Define and explain important statistical concepts such as measures of central tendency and variation, probability theory, and inferential testing
⇒ Define and explain important methodological concepts such as experimental control, reliability/validity, and various single- and multi-group research designs
⇒ Understand and interpret statistical and methodological information from published research and other data

Student Performance Criteria

Students will be measured according to their performance on the following criteria:

⇒ Exams. There will be a mid-term, a final, and smaller quizzes periodically. (30%)
⇒ Homework. Homework will be assigned that will be done individually (40%)
⇒ Group Work. Some class periods will be devoted to group work using data. Attendance and engagement in these class periods will be assessed along with the work product (30%)

A small percentage of quiz grades will be dropped to account for absences.

Required Materials


JAMOVI statistical software (jamovi.org).

Attendance/Participation Policy

You must have been present for at least 50% of the class meetings in order to avoid automatic course failure.

You must complete at least 50% of the assigned work to avoid automatic course failure. Late work does NOT count toward this percentage.

Note that the instructor has the authority to suspend these rules in individuals cases where circumstances dictate. This will ALWAYS be done to ensure that the student receives the fairest grade possible and will NEVER be used to punish students.
Recovering Missed Work

⇒ Homework can be submitted late at a penalty of at least 5% per 24-hr period up to a maximum penalty of 55%.
⇒ The mid-term can be made up by contacting me within 7 days of the missed exam. After that, the opportunity will be lost unless there are severe extenuating circumstances.

Persons with disabilities which warrant academic accommodations must contact the Student Life office, Rm. 112 in the University Center, in order to request such accommodations prior to their implementation. You are encouraged to make this request early in the semester so that appropriate arrangements can be made. Visit [http://www.angelo.edu/content/files/14216-op-1015-providing-accommodations-for-students-with for more information.](http://www.angelo.edu/content/files/14216-op-1015-providing-accommodations-for-students-with)

Angelo State University expects its students to maintain complete honesty and integrity in academic pursuits. Students are responsible for reading the Academic Honor Code, located at [http://www.angelo.edu/forms/pdf/honorcode5.pdf](http://www.angelo.edu/forms/pdf/honorcode5.pdf).

As stated in the Angelo State University Operating Policy and Procedure (OP 10.19) a student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

Things NOT To Do

⇒ Cell phones must be turned off or to a silent setting; texting is disallowed.
⇒ Persistent and excessive lateness will not be tolerated. If you arrive to class late, I will stop speaking until you sit.
⇒ The use of personal listening devices during class will not be tolerated.
⇒ While I encourage an open classroom regarding communication, student discussions that become disruptive to the class will not be allowed.

Other Notes

⇒ Office hours are posted in the psychology office. Email is the preferred contact method, however. [Note my office location - I am NOT in the psychology building.](http://www.angelo.edu/content/files/14216-op-1015-providing-accommodations-for-students-with)

The grading scale is the traditional one:

- > 90 = A
- 80—89 = B
- 70—79 = C
- 60—69 = D

This document constitutes an explicit agreement between the course instructor and the students enrolled in the course. All issues pertaining to the conduct of the course will be governed by this document, and where it is silent, the course instructor’s discretion will be binding.
**PSY 2321 - Statistics/Research Methods**  
**Fall 2019**

Dr. Kraig Schell  
**Office: ADM 111**  
**Phone: 486.6128**  
**Email: kraig.schell@angelo.edu**

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<thead>
<tr>
<th>Week</th>
<th>General Topics</th>
<th>Activities</th>
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<td>Intro to Research Concepts (1-2)</td>
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<td>2</td>
<td>Methods in the Social Sciences (3)</td>
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<td>3</td>
<td>Ethics (14)</td>
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<td>4</td>
<td>Principles of Experimental Design (4)</td>
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<td>5</td>
<td>Qualitative Methods (12-13)</td>
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<td>Surveys (5)</td>
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<td>7</td>
<td>Describing Data (6)</td>
<td><strong>Mid-Term</strong></td>
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<td>8</td>
<td>Correlations (9)</td>
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<td>9</td>
<td>Drawing Conclusions: Inference (7)</td>
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<td>10</td>
<td>One-Sample Tests (8)</td>
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<tr>
<td>11</td>
<td>Two-Sample Tests: Parametric (8)</td>
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<tr>
<td>12</td>
<td>Two-Sample Tests: Non-Parametric (9, 10)</td>
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<td>13</td>
<td>Analysis of Variance (11)</td>
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<tr>
<td>14</td>
<td>Analysis of Variance (11)</td>
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*Course progress and chapters covered are estimated.*
The School of Business has graciously allowed us the use of this room and its expensive technology. I expect you to treat the room and its equipment as if it were yours, with great care.

You will need to bring your own computer to participate. The computer will need to be capable of wireless Internet connections and can be Windows, Mac, or Chrome-based.

If you are found to be mistreating any equipment in this room, using it in ways that are not authorized or in an unsafe manner, you will be asked to drop the course.