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. Two exams will be taken previous to the final (25% combined)
⇒ Final. A final exam will be taken at the scheduled time during finals week (15%)
⇒ Homework. Homework will be assigned from various sources (35%)
⇒ Participation. Some class periods will be devoted to group discussions around problems. Attendance and engagement in these class periods will be assessed along with the work product (25%)

Required Materials


JAMOVI statistical software (jamovi.org)

Attendance/Participation Policy

Attendance may be sampled using sign-in sheets at random intervals. You must have been present to sign these sheets at least 50% of the time to pass the course.

Participation in group activities will be assessed by peer ratings. You must be present for at least 50% of the group sessions to pass the course.

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 of 60%.
⇒ Exams 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.

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.

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.

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
## Spring 2019

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

<table>
<thead>
<tr>
<th>Week</th>
<th>General Topics</th>
<th>Activities</th>
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<tbody>
<tr>
<td>Jan 14</td>
<td>Intro to Course (1-2)</td>
<td>Group Day 1</td>
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<td>Jan 21</td>
<td>Measurement in the Social Sciences (3)</td>
<td>Group Day 2</td>
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<tr>
<td>Jan 28</td>
<td>Descriptive Methods (4)</td>
<td>Group Day 2</td>
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<td>Organizing Data (5)</td>
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<td>Feb 4</td>
<td>Organizing Data (5)</td>
<td>Group Day 3</td>
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<td>Feb 11</td>
<td>Probability Theory (7)</td>
<td>Exam 1</td>
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<td>Feb 18</td>
<td>Correlations (6)</td>
<td>Group Day 4</td>
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<tr>
<td>Feb 25</td>
<td>Correlations (6)</td>
<td>Group Day 5</td>
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<tr>
<td>Mar 4</td>
<td>One-Sample Inferential Tests (8)</td>
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<tr>
<td>Mar 18</td>
<td>Two-Sample Group Comparisons Part I (9)</td>
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<tr>
<td>Mar 25</td>
<td>Two-Sample Group Comparisons Part II (9, 10)</td>
<td>Group Day 6 / Exam 2</td>
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<tr>
<td>Apr 1</td>
<td>Analysis of Variance (11)</td>
<td>Group Day 7</td>
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<td>Apr 8</td>
<td>Analysis of Variance (11)</td>
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<td>Apr 15</td>
<td>Analysis of Variance (12)</td>
<td>Group Day 8</td>
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<td>Apr 22</td>
<td>Analysis of Variance (12)</td>
<td>Group Day 9</td>
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<tr>
<td>Apr 29</td>
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<td>Group Day 10</td>
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Exact dates for Group Days will be assigned as the course progresses. Course progress and chapters covered are estimated. You will be allowed to choose your groups as long as this remains a viable option.