PSY 2321 Research Methods and Statistical Analysis

FALL 2019

Leslie James Kelley, Ph.D.
COURSE NUMBER
PSY 2321.D10

COURSE TITLE
Research Methods and Statistical Analysis

CREDITS
Three Semester Credit Hours (3-0-0)
Online Class: Meets completely online using Blackboard

PREREQUISITE COURSES
None

CO-REQUISITES
None

PRE-REQUISITE SKILLS
Accessing internet web sites, use of ASU Library resources, and proficiency with Microsoft Word and/or PowerPoint are expectations of the Archer College. Computer access requirements are further delineated in the Undergraduate Handbook. Tutorials for ASU Library and for Blackboard are available through RamPort. The ASU Undergraduate/Graduate Student Handbook should be reviewed before taking this course: https://www.angelo.edu/student-handbook/

COURSE DELIVERY
This is an online course offering. The course will be delivered via the Blackboard Learning Management System. The course site can be accessed at ASU’s Blackboard Learning Management System

FACULTY
Leslie Kelley, Ph.D.
Dept. Office: ADM 111
Dept. Phone: 325.486.6128
Fax: (325) 942-2236
Email: Leslie.Kelley@angelo.edu (preferred method of communication)

OFFICE HOUR
Online – W 10:00am-12:00pm
Online – T TH 1:00-2:00pm

COURSE DESCRIPTION
This is an introductory course involving research design and the use of statistical methods to interpret and summarize data.
**BROWSER COMPATIBILITY CHECK**

It is the student’s responsibility to ensure that the browser used to access course material on his/her computer is compatible with ASU’s Blackboard Learning System. The faculty reserve the right to deny additional access to course assignments lost due to compatibility issues. Students are responsible for reviewing the guidelines posted in this course regarding accessing Blackboard assignments. Problems in this area need to be discussed with faculty at the time of occurrence, either via a phone call (preferred) during posted acceptable hours for calling, or via email notification during times outside those posted for calls.

Be sure to perform a browser test. Select the “Support” tab from the Blackboard homepage (http://www.blackboard.angelo.edu) Select “Test your Browser” option.

**COURSE OVERVIEW**

**Tentative Course Schedule**

<table>
<thead>
<tr>
<th>Topic &amp; Required Reading</th>
<th>General Description of Subject Matter</th>
<th><em>Assignments Due</em></th>
</tr>
</thead>
</table>
| **8/26-8/30: Chapter 1** | DUE Aug. 28th by 11:59 PM* | - Review START HERE page  
- Review Course Syllabus and ASU Honor Code. Select “Mark Reviewed” to agree to terms of the course and ASU’s policies and access course content.  
*Introductory Discussion Board due 8/29* |

<table>
<thead>
<tr>
<th>Monday, September 2nd</th>
<th></th>
<th>Campus Closed – Labor Day</th>
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</thead>
<tbody>
<tr>
<td><strong>9/2-9/6: Chapters 2-3</strong></td>
<td>Ethical Research &amp; Research Designs and Variables</td>
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<tr>
<td>Wednesday, September 11th</td>
<td>Census – Official Date of Record (“W” period starts 9/12)</td>
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<tr>
<td><strong>9/9-9/13: Chapter 4</strong></td>
<td>Sampling from a Population</td>
<td><em>Cumulative Exam #1 (Section 1) open 9/10-9/12</em></td>
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<tr>
<td><strong>9/16-9/20: Chapter 5</strong></td>
<td>One-Way Chi-Squared (One Variable with Frequency Data)</td>
<td></td>
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<tr>
<td><strong>9/23-9/27: Chapter 6</strong></td>
<td>Two-Way Chi-Squared (2 Variables with Frequency Data)</td>
<td><em>Assignment #1 Due 9/26</em></td>
</tr>
<tr>
<td><strong>9/30-10/4: Chapters 7 – 8</strong></td>
<td>Correlation &amp; Test Construction</td>
<td></td>
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<tr>
<td><strong>10/7-10/11: Chapters 8 – 9</strong></td>
<td>Correlation &amp; Prediction</td>
<td><em>Assignment #2 Due 10/10</em></td>
</tr>
<tr>
<td><strong>10/14-10/18: Chapters 1 – 9</strong></td>
<td>Review Chapters 1 – 9 for Exam #2</td>
<td><em>Cumulative Exam #2 (Sections 1-3) open 10/15-10/17</em></td>
</tr>
<tr>
<td><strong>March 11-15</strong></td>
<td>Spring Break – No Assignments Due</td>
<td></td>
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<tr>
<td><strong>10/21-10/25: Chapter 10</strong></td>
<td>Independent-Samples T-test</td>
<td>One IV with Two Independent levels/groups</td>
</tr>
<tr>
<td><strong>Thursday, October 31st</strong></td>
<td></td>
<td>Last day to Withdraw from Class (“W” period ends)</td>
</tr>
</tbody>
</table>
### STUDENT LEARNING OUTCOMES

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Assignment(s) or activity(ies) validating outcome achievement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understand various research designs and develop a rationale for choosing appropriate statistical tests for analyzing data from these designs</td>
<td>Readings, weekly assignments, &amp; exams</td>
</tr>
<tr>
<td>Understand how to conduct these basic statistical analyses using a current statistical package</td>
<td>Readings, weekly assignments, &amp; exams</td>
</tr>
<tr>
<td>Define and explain important statistical and methodological concepts such as experimental control, reliability/validity, central tendency, variation, and inferential testing</td>
<td>Readings, weekly assignments, &amp; exams</td>
</tr>
<tr>
<td>Understand and interpret statistical and methodological information from published research and other data</td>
<td>Readings, weekly assignments, &amp; exams</td>
</tr>
</tbody>
</table>

### REQUIRED TEXTS AND MATERIALS


IBM SPSS Statistics GradPack (Base) – Version 23 or 24. You can download this software for approximately $40 (6-month license) through affiliates of IBM by clicking here. Additionally, you may purchase the software through Amazon and other online sources. You will only need the base
version of SPSS for this class, not the standard or premium versions. Please note that examples from Wilson & Joye are drawn from version 23, and other versions may look slightly different.

OTHER REQUIRED MATERIALS

- Computer with MAC or Windows Operating System
- High Speed Internet Access
- Ethernet Cable
- Webcam (Please note: a plug-in webcam allows the student to perform thorough environmental scans).

Refer to Angelo State University's Distance Education website for further technology requirements: http://www.angelo.edu/distance_education

Testing via Respondus™ Monitor

Access to Exams will be through Respondus™ Lockdown Browser and will be video recorded via Respondus™ Monitor [See Other Required Materials for a list of needed equipment]. Use of another electronic device is prohibited.

There is a practice quiz: a short 10 question quiz over ASU trivia that is not graded. Students are required to complete this practice quiz in advance of taking a graded quiz. This process will allow you to become familiar with the technology associated with testing and improve the testing environment. The practice quiz, instructional videos, and more information regarding Respondus Monitor can be found under the Respondus Monitor Help tab in your Blackboard course.

NOTE: You must complete the Practice Test under the Respondus Monitor Tab for Exam 1 to be released to you!

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:

**Grading Scale: % = point percentages out of 700 point**
- A = 90%-100% = 630-700
- B = 80%-89% = 560-629
- C = 70%-79% = 490-559
- D = 60%-69% = 420-489
- F = Below 60% = Below 420
EVALUATION AND GRADES
Graded assignments, activities and percent of the overall course grade:

Grades:
5 Exams: (5 x 100 points)
3 SPSS Assignments: (3 x 100 points)
Introductory Discussion Board (10 points)
Total Possible Points: 710 (Lowest Grade Dropped)

TEACHING STRATEGIES
• Lectures, Videos, PowerPoint, and Skill-based Tutorials

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.

ASSIGNMENT/ACTIVITY DESCRIPTIONS

Introductory Discussion Board (10 points): There will be an introductory discussion board, which will be worth 10 points toward your overall grade. This assignment is described in further detail in Blackboard, and is due during Thursday of the first week of class.

SPSS Assignments (300 points): There will be 3 SPSS assignments, each worth 100 points toward your overall grade. For these assignments, you will need to follow the directions in blackboard, and carefully apply the knowledge that you have learned in regard to the weekly lessons and readings to choose an appropriate research design and appropriate statistical tests for analyzing data provided for the assignment. Further, you will run analyses using SPSS (versions 23-24). You will need to purchase and download an SPSS base grad pack ($40-$70) or use SPSS on campus at a computer lab where it is available. SPSS (v. 23) analyses are thoroughly described in your textbook, to provide you with clear examples of how to complete these assignments. After running the analyses, you will complete all questions in Blackboard in order to finish the assignment. You will have two attempts to complete each of these assignments, but both attempts must be finished before the deadline in order to receive credit.

Exams (500 points): There will be 5 cumulative exams, each worth 100 points toward your overall grade. Although most of us do not like cumulative exams, it is unquestionably the case that reviewing a specific topic for at least 4 different exams is much better than reviewing it once, when it comes to subsequent memory of the given topic. In an effort to help you not just remember the content of this course for an exam and then forget it for the rest of your life, you will have cumulative exams. In this regard, understanding is extremely important, as it is much more difficult to remember something you do not understand! The exams will generally be composed of multiple choice, true/false, and matching, including some basic calculation or analyses you may do by hand. Exams will include information from your readings, lectures,
homework assignments, and any other content or activities from the class. The final exam will
be a written exam, requiring you to run some SPSS analyses and answer questions accordingly.

The lowest of your 8 grades (5 exams & 3 assignments) will be dropped.

GENERAL POLICIES RELATED TO THIS COURSE
All students are required to follow the policies and procedures presented in the following
documents:

- Angelo State University Student Handbook located on the ASU website: [Angelo State University's Student Handbook](#)

STUDENT RESPONSIBILITY & ATTENDANCE

ON-LINE: This class is asynchronous, meaning you do not have to be on-line at a certain time. There are readings which you will have to complete to be able to adequately participate in individual and group assignments. In order to complete this course successfully, you do have to participate in all course activities, e.g., discussion boards, course projects, reflective logs, etc. Students are expected to engage in course activities and submit work by due dates and times. The hope is that students will make substantive contributions which reflect integration of assigned materials as well as any outside readings as appropriate. Scholarly contribution is an expectation. For planning purposes, this class will probably require a minimum of 6-9 study hours per week on average.

COMMUNICATION

You can expect to receive a response to email and/or telephone messages within 24-48 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Students are encouraged to email the instructor if they have any questions or concerns. When emailing the instructor, please include your class name and time (or “Online”) in the subject line (for example, Stats, Online). Please be respectful in your emails. This includes addressing the professor properly and signing your full name. If you would like to meet virtually or by phone with the instructor, please approach it this way: send an email requesting a meeting, and give three possible options, in terms of days and time slots that work for you.

Written communication via Blackboard: It is an expectation of this class that you use formal writing skills giving appropriate credit to the source for your ideas. Follow APA (2010) 6th edition (2nd Printing or higher only) guidelines for referencing.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes.
Virtual communication: Office hours and/or advising may be done with the assistance of the telephone, Skype, or another virtual program.

Use Good "Netiquette":

- Check the discussion frequently and respond appropriately and on subject.
- Focus on one subject per message and use pertinent subject titles.
- Capitalize words only to highlight a point or for titles. Otherwise, capitalizing is generally viewed as SHOUTING!
- Be professional and careful with your online interaction. Proper address for faculty is by formal title such as Dr. or Ms./Mr. Jones unless invited by faculty to use a less formal approach.
- Cite all quotes, references, and sources.
- When posting a long message, it is generally considered courteous to warn readers at the beginning of the message that it is a lengthy post.
- It is extremely rude to forward someone else’s messages without their permission.
- It is fine to use humor, but use it carefully. The absence of face-to-face cues can cause humor to be misinterpreted as criticism or flaming (angry, antagonistic criticism). Feel free to use emoticons such as J or :) to let others know you are being humorous.

(The "netiquette" guidelines were adapted from Arlene H. Rinald's article, The Net User Guidelines and Netiquette, Florida Atlantic University, 1994, available from Netcom.)

ASSIGNMENT SUBMISSION

In this class, all assignments need to be submitted through the Assignments link in the Blackboard course site. This is for grading purposes. Issues with technology use arise from time to time. If a technology issue does occur regarding an assignment submission, email me at Leslie.Kelley@angelo.edu and attach a copy of what you are trying to submit. This lets your faculty know you completed the assignment on time and are just having problems with the online submission feature in Blackboard. Once the problem is resolved, submit your assignment through the appropriate link. This process will document the problem and establish a timeline. Be sure to keep a backup of all work.

LATE WORK OR MISSED ASSIGNMENTS POLICY

Attendance/Make-Up Policy: Attendance/Participation is required for this online course. The course is set up on weekly modules. The week begins on Monday and ends on Friday. Assignment due dates are shown on the calendar/schedule or posted within Blackboard. Assignments are open for approximately one week. Exams are open for two days, and the lowest of your exams is dropped. There will be No makeup exams except in cases of serious illness or some other extreme event such as a death in the family. In these instances, you must obtain a note from your physician or Dean, and present it to the instructor. The instructor will determine if a student will be allowed to make-up the assignment. If permitted to make-up an
exam, you will have 2 days after the missed exam to make it up and failure to do so will result in a zero. Exams must be taken on the assigned day(s) and within the assigned times. I must know no later than 2 weeks in advance if circumstances may prevent you from taking an exam at the specified time.

**ACADEMIC HONESTY**
Academic honesty is expected on all work. Students are expected to maintain complete honesty and integrity in their online experiences. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The *Archer College of Health and Human Services* adheres to the academic honesty statement as set forth in the Angelo State University Student Handbook: [Angelo State University's Academic Integrity Policy](https://www.angelo.edu/about-angelo/student-affairs/student-handbook). The University "faculty expects all students to engage in all academic pursuits in a manner that is above reproach and to maintain complete honesty and integrity in the academic experience both in and out of the classroom setting and may initiate disciplinary proceedings against a student accused of any form of academic dishonesty, including but not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials."

**PLAGIARISM**
Plagiarism at ASU is a serious topic. The Angelo State University’s Honor Code gives specific details on plagiarism and what it encompasses. 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. We use the [APA Style Manual of the American Psychological Association](https://apastyle.apa.org/) as a guide for all writing assignments. Quotes should be used sparingly. 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 Bb Safe Assignment or Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center: [Angelo State University's Writing Center Website](https://www.angelo.edu/academics/writing-center/).

**STUDENTS WITH DISABILITIES**
1. "Angelo State University 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 Act of 2008 (ADAAA), and subsequent legislation."

2. 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 the Office
of Student Affairs, University Center, Room 112 at (325) 942-2047 or (325) 942-2211(TDD/FAX) or by e-mail at studentservices@angelo.edu to begin the process. The Office of Student Affairs will establish the particular documentation requirements necessary for the various types of disabilities.

Reasonable accommodations will be made for students determined to be disabled or who have documented disabilities.

**INCOMPLETE GRADE POLICY (OP 10.11 Grading Procedures)**
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.

**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.” Please see ASU Operating Policy 10.19.

**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.

**COURSE EVALUATION**
Students are provided the opportunity, and are strongly encouraged to participate in a course evaluation at the end of the semester. Areas on the IDEA evaluation include:

1. Gaining factual knowledge (terminology, classifications, methods, trends)
2. Learning fundamental principles, generalizations, or theories
3. Learning to apply course material (to improve thinking, problem solving, and decisions)
4. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course
5. Gaining a broader understanding and appreciation of intellectual/cultural activity (music, science, literature, etc.)
6. Learning how to find and use resources for answering questions or solving problems
7. Learning to analyze and critically evaluate ideas, arguments, and points of view
8. Acquiring an interest in learning more by asking questions and seeking answers
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. Sex discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. As a faculty member, I am a Responsible Employee meaning that I will report any allegations I am notified of to the Office of Title IX Compliance in order to connect students with resources and options in addressing the allegations reported. You are encouraged to report any incidents to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D.

Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 200
Phone: 325-942-2022
Email: michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit Title IX Office Website

End of syllabus.