Psy 6313
Research Design and Analysis
Fall 2021

Instructor: Cheryl Stenmark
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Phone: 325-486-6131
Office: A 104E
Office Hours: M: 12pm-4pm, T/Th: 11am-2pm

Course Information

Course Description

This course is intended to provide you with an understanding of the use and interpretation of basic statistics for psychological research. Students will learn a variety of descriptive and inferential statistical techniques. Throughout the semester, we will review statistical procedures, including a brief introduction to descriptive statistics, t-tests, power, correlation and regression, and ANOVA (through two-way mixed designs). The course includes practical applications of the procedures, including the use of statistical software and interpretation of the results produced by the software.

Course Credits

3

Prerequisite and Co-requisite Courses

None

Prerequisite Skills

Accessing Internet websites, using ASU Library resources, and proficiency with Microsoft Word and/or PowerPoint are expectations of completing this course successfully.

Program Outcomes

Upon completion of the program of study for the I/O Psychology Masters program, the graduate will be prepared to:
Communicate effectively
Behave ethically
Master knowledge and skills in psychology

Student Learning Outcomes

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Assignment(s) or activity(ies) validating outcome achievement:</th>
<th>Mapping to Program Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure to statistical techniques</td>
<td>Chapter Readings, Lectures, Homework</td>
<td>Master Knowledge and Skills in Psychology</td>
</tr>
<tr>
<td>Proficiency in these techniques</td>
<td>Chapter Readings, Lectures, Homework, Exams</td>
<td>Master Knowledge and Skills in Psychology</td>
</tr>
<tr>
<td>Understanding of the underlying theory in the application of the techniques</td>
<td>Chapter Readings, Lectures, Homework, Exams</td>
<td>Master Knowledge and Skills in Psychology, Behave Ethically</td>
</tr>
<tr>
<td>Knowledge of when and where to apply the statistical techniques</td>
<td>Chapter Readings, Lectures, Homework, Exams</td>
<td>Master Knowledge and Skills in Psychology, Behave Ethically</td>
</tr>
<tr>
<td>Exposure to different analytic strategies and philosophies</td>
<td>Chapter Readings, Lectures, Homework</td>
<td>Master Knowledge and Skills in Psychology, Behave Ethically</td>
</tr>
</tbody>
</table>

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

Required Texts and Materials

Recommended Texts and Materials
There may be additional readings for you to read and discuss throughout the semester. They will be posted on Blackboard for you to download. The syllabus, announcements, supplemental readings, and grades for this class may be found on Blackboard. I encourage students to access this site regularly for important information pertaining to the course.
Technology Requirements
To successfully complete this course, students need to have access to a computer with Respondus LockDown Browser and Respondus Monitor. More information about LockDown Browser and Monitor is included below.

To participate in one of ASU’s distance education programs, you need this technology:

- A computer capable of running Windows 7 or later, or Mac OSX 10.8 or later
- The latest version of one of these web browsers: internet Explorer, Firefox, or Safari
- Microsoft Office Suite or a compatible Open Office Suite
- Adobe Acrobat Reader
- High Speed Internet Access
- Ethernet adapter cable required (wireless connections can drop during tests and Collaborate sessions)
- Webcam

Refer to Angelo State University’s Distance Education website for further technology requirements: [Angelo State University's Distance Education Website](#)

Topic Outline
The topics that will be covered in this course can be found in the Course Schedule at the end of the syllabus.

Communication

I must be able to contact all students in this course via e-mail. It is expected that students regularly check their e-mail and Blackboard (at least once a day is preferred). The best way to contact me is via e-mail. Although I answer e-mail regularly (and relatively quickly) throughout the work week (Monday - Friday, 7:30AM to 4:30PM), I respond to it less frequently on weekends and holidays. During those times, you can expect an answer to your e-mail within 24-48 hours. There may be times during the semester, when I do not have access to email. I will be sure to notify students if such situations occur.

If you are on campus and would like to drop by my office, please feel free to do so. As I am often away from my desk, it is probably best to arrange a specific time in advance. Please email me to do so.
Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone, Collaborate, Skype, etc.

Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent/Points of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlap project deliverables</td>
<td>100 (10 deliverables, 10 points each)</td>
</tr>
<tr>
<td>Final project proposal</td>
<td>100</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>100 (10 assignments, 10 points each)</td>
</tr>
<tr>
<td>Exams</td>
<td>200 (2 exams, 100 points each)</td>
</tr>
<tr>
<td>Total</td>
<td>500</td>
</tr>
</tbody>
</table>

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.
Assignment and Activity Descriptions

*Please note: Rubrics for all assignments and activities are located at the end of this syllabus.

**Homework Assignments:** Homework pertaining to the current topic will be assigned throughout the semester. These are designed to help students keep up with and apply the material. There will be 13 homework assignments, each worth 10 points. The highest ten scores will be used to calculate a student’s final homework grade (for a total of 100 points).

**Exams:** There will be two (2) exams: the midterm and the final, covering material from the textbook as well as class lectures and discussions. The exams are worth 100 points each. These exams may include multiple choice, matching, true/false, short answer, and calculation items.

**Course Project:** During the course of Overlap, you will design a proposal for a study. If you intend to conduct a Master’s thesis, I would highly suggest that you design a study which could be used for your thesis. Each week, during the overlap of this course with the second year students, we will discuss a different element of the study (which will serve as graded deliverables for class). You will team up with second year students who will serve as advisors in the design of your study. At the end of this course, you will present your project proposal in its entirety to the class.

**Assignment Submission**

Some assignments may be submitted through the Assignments link in the Blackboard site. This is for grading, documenting, and archiving purposes. Issues with technology use arise from time to time. If a technology issue does occur regarding an assignment submission, email me at cstenmark@angelo.edu and attach a copy of what you are trying to submit. Please contact the IT Service Center at (325) 942-2911 or go to your Technology Support tab to report the issue. 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**

**Deadlines:** NO LATE WORK will be accepted in this course. Exceptions will be made only for serious illness or emergency and then only after discussion with the instructor. Please contact the instructor by telephone or email if an emergency situation occurs.

If the student is involved in a university-approved absence, arrangements should be made with the instructor as far in advance as possible to ensure agreement on interpretation and the make additional arrangements for different deadlines.
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
- Angelo State University Catalog

Student Responsibility and Attendance

Attendance is expected and required to do well in the course. Included in the syllabus is a tentative class schedule. Students should read the pertinent chapter(s) prior to class. Students will be responsible for and tested over both text and lecture material. Consequently, to benefit fully from this course it is important for students to read the text, stay current with the material and attend class. If a student misses a class for a pre-excused or unexcused absence it is the student’s responsibility to request/obtain material/information (e.g., notes, schedule modifications, announcements, etc.) from a classmate.

Please note that tardiness and early departure is disruptive to others in class; therefore students should appear on time for each class session and remain until class dismissal. In addition, the ringing or use of cell phones is disruptive to others; consequently it is requested that students mute cell phones prior to the beginning of class. Students who violate these class policies may be academically withdrawn from the course.

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.

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
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.

Course Syllabus Statement on Required Use of Masks/Facial Coverings by Students in Class At Angelo State University
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.

Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Readings/Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 23</td>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Aug 30</td>
<td>Frequency Tables, Graphs, and Distributions Measures of Central Tendency and Variability</td>
<td>2 3</td>
</tr>
<tr>
<td>3</td>
<td>Sept 6</td>
<td>Labor Day: No Class</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Sept 13</td>
<td>Standardized Scores and the Normal Distribution</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Sept 29</td>
<td>Introduction to Hypothesis Testing: The One-Sample z Test</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Sept 27</td>
<td>Interval Estimation and the t Distribution</td>
<td>6</td>
</tr>
</tbody>
</table>
### 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.

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)
2. Learning to apply course material (to improve thinking, problem solving, and decisions)
3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course

End of Syllabus

1 https://www.angelo.edu/student-handbook/
2 https://www.angelo.edu/catalogs/
3 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
4 https://www.angelo.edu/services/disability-services/
5 https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
6 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
7 https://www.angelo.edu/dept/writing_center/academic_honesty.php
8 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of