Instructor: Kristi White, PhD, ATC, LAT  
Email: kristi.white@angelo.edu  
Phone: 325-486-6179  
Office: Archer Building (HHS) 222E  
Virtual Office Hours: By Appointment

Course Description

A practical application of health-related statistical analysis providing students with the knowledge and skills needed to read, interpret, and evaluate quantitative findings in medical and allied health literature.

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 the students enrolled in HSP 4337.

Program Outcomes

Upon completion of the program of study for health science professions, graduates will be prepared to:
Student Learning Outcomes

<p>| | | |</p>
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Understand statistical concepts utilized in research</td>
<td>Exams, Assignments</td>
</tr>
<tr>
<td></td>
<td>within the social sciences.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Apply the mathematical/Statistical techniques</td>
<td>Exams, Assignments</td>
</tr>
<tr>
<td></td>
<td>presented for social science research.</td>
<td></td>
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<tr>
<td>3.</td>
<td>Demonstrate an ability to analyze and interpret data</td>
<td>Exams, Assignments</td>
</tr>
<tr>
<td></td>
<td>within the social sciences.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Analyze practical examples as to when certain</td>
<td>Exams, Assignments</td>
</tr>
<tr>
<td></td>
<td>statistical techniques are appropriate for analysis</td>
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</tbody>
</table>

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](https://blackboard.asu.edu).

Required Texts and Materials


Technology Requirements

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 OS X 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](https://www.angelo.edu/distance-education)

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.
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.

Grading

Evaluation and Grades

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

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Points of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>Homework/Worksheets</td>
<td>300</td>
</tr>
<tr>
<td>Online Quizzes (4 x 40 points)</td>
<td>160</td>
</tr>
<tr>
<td>Video Participation</td>
<td>140</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>800</strong></td>
</tr>
</tbody>
</table>

This course is graded strictly on points NOT percentages. The amount of points you earn determines your grade in the course. I DO NOT ROUND UP GRADES at the end of the semester. It is your responsibility to keep track of the total course points you have accumulated in the course.

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** = 720.00-800 points
- **B** = 640.00-719.99 points
- **C** = 560.00-639.99 points
- **D** = 480.00-559.99 points
- **F** = 0-479.99 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

- Homework and Worksheets: 300 points
Students will be provided with a number of worksheets to practice the statistical techniques in the course.

Students may print off the worksheets, complete them, and submit it as a PDF.

Students can use their books, notes, and calculators to complete these worksheets, however you must **SHOW YOUR WORK!**

- **Online Quizzes: 40 points each x 4 = 160 points total**
  - Students will take 4 online quizzes during the course
  - Students can use their books, notes, and calculators to complete the quizzes but may not receive assistance from another person.
  - These quizzes will be timed and require Lockdown Browser and Respondus Monitor.

- **Video Participation: 140 points**
  - Videos discussing the information of each chapter will be posted. Students are required to watch these videos.
  - There will be short quizzes regarding the content of these videos. Your grade for these quizzes is dependent on the percentage of video you watch and how you answer the questions. The new video software allows the instructor to see if you actually watched the videos or just skipped to the questions. If you just answer the questions without watching the videos, you will not receive full points for these assignments.

**Assignment Submission**

All assignments MUST 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 kristi.white@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**

Late work will not be accepted unless you have received permission from the instructor prior to the due date. If you miss an assignment due to an unexcused absence, you are out of luck. Show up for class!
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

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 i.e. 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 that 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.

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
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 Summer I 2020

<table>
<thead>
<tr>
<th>Week/Date</th>
<th>Topic/Assignments</th>
<th>Assessments DUE</th>
</tr>
</thead>
</table>
| **Week 1: June 1-June 7** | Welcome!  
Chapter 1: An Introduction  
Chapter 2: Descriptive Statistics  
Chapter 3: Statistical Parameters-Measures of Central Tendency and Variation  
Chapter 4: Standard Scores, the z Distribution, and Hypothesis Testing | Chapter 1 & 2 Video - June 3rd  
Worksheet 1 – June 4th  
Chapter 3 & 4 Video - June 5th  
Worksheet 2 – June 6th  
Quiz 1 Due – June 7th |
| **Week 2: June 8-June 14** | Chapter 5: Inferential Statistics  
Chapter 6: Correlation and Regression  
Chapter 7: t-Test for Independent Groups  
Chapter 8: t-Test for Dependent Groups | Chapter 5 & 6 Video Due June 10th  
Worksheet 3 – June 11th  
Chapter 7 & 8 Video Due June 12th  
Worksheet 4 – June 13th  
Quiz 2 Due – June 14th |
| **Week 3: June 15-June 21** | Chapter 9: ANOVA-One Factor Completely Randomized Design  
Chapter 10: ANOVA Multiple Comparison Tests  
Chapter 11: ANOVA Repeated Measures  
Chapter 12: Factorial ANOVA | Chapter 9 & 10 Video - June 17th  
Worksheet 5 – June 18th  
Chapter 11 & 12 Video - June 19th  
Worksheet 6 – June 20th  
Quiz 3 Due June 21st |
| **Week 4: June 22-June 28** | Chapter 13: Post Hoc Analysis for Factorial ANOVA  
Chapter 14: Factorial ANOVA Additional Designs  
Chapter 15: Chi-Square Test  
Chapter 16: Other Statistical Topics | Chapter 13 & 14 Video Due June 24th  
Worksheet 7 – June 25th  
Chapter 15 & 16 Video Due June 26th  
Worksheet 8 – June 27th  
Quiz 4 Due June 28th |
| **Week 5: June 29-July 1** | Review and Final Exam                                                                                                                                                                                                | Final Exam June 30, 2020 from 1:00-3:00pm |

* all due times are 11:59 pm CST, unless otherwise specified

## 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.

**Student Learning Outcomes**

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.
4. Learning to apply knowledge and skills to benefit others or serve the public good

**End of Syllabus**

1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. [https://www.angelo.edu/dept/writing_center/academic_honesty.php](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](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)