



ANGELO STATE UNIVERSITY

Department of Curriculum and Instruction

EDG 6302

TESTS & MEASUREMENT

Fall A 2019

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COURSE INFORMATION

COURSE NUMBER

EDG 6302

COURSE TITLE

Tests & Measurement

COURSE DELIVERY

This is a distance course utilizing the Blackboard course management tool with course requirements, learning activities, assignments, and due dates specified in the course calendar and modules in Blackboard. The course site can be accessed at <http://blackboard.angelo.edu>. The course begins on August 19, 2019 and ends on October 11, 2019.

COURSE DESCRIPTION

A study of typical methods of measuring and testing both quantitative and qualitative data used in educational research. Emphasis is placed on the interpretation and use of tests. Elementary statistical terms and processes are studied.

INSTRUCTOR INFORMATION

LEAD INSTRUCTOR

Kim Livengood, Ph.D.

Email: klivengood@angelo.edu

INSTRUCTOR TEAM

Graduate courses in the Department of Curriculum and Instruction may utilize an instructor team to support the Lead Instructor. All members of the instructor team are highly qualified with educational and practical experiences related to the subject-matter of the course.

OFFICE HOURS

Email is the most accessible way to contact all instructors. The instructor team is available via email using only your ASU email address (angelo.edu). You should receive a response within 24 hours.

STUDENT LEARNING OUTCOMES

By the end of the course, the student (candidate) will:

- define key terms associated with tests and measurements as used in education

- differentiate between qualitative and quantitative data and understand their uses.
- gain an understanding of the nature and role of data.
- distinguish among the different types of reliability and validity of data.
- discuss the findings resulting from research
- identify different types of variables in research methodologies.
- construct a spreadsheet with formulas for data analysis.
- describe methods for collecting and analyzing quantitative data.
- describe methods for collecting and analyzing qualitative data.
- compare and contrast different types of methodologies
- justify the use of different types of methodologies
- write a professional quality empirical research article.

REQUIRED TEXTS AND MATERIALS

REQUIRED TEXTS

American Psychological Association. (2009). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: American Psychological Association.

RECOMMENDED READINGS

Course materials and readings are located in Blackboard. Candidates are expected to locate peer-reviewed, research-based resources for research on individual topics and learning activities.

TECHNOLOGY REQUIREMENTS

A complete list of technology requirements for online education at Angelo State University is available at https://www.angelo.edu/online-education/technology_requirements.php. Internet connectivity problems and home computer problems are not considered adequate excuses for missing assigned learning activities. Technical support concerns should be submitted to the IT Service Center via phone at (325) 942-2911 or toll-free at (866) 942-2911.

GRADING SYSTEM

Each assignment will be worth a varying number of points. Grades will be determined by the percentage of the total possible points earned.

The following grading scale is in use for this course:

- A = 90.00-100%
- B = 80.00-89%
- C = 70.00-79%
- F = below 70%

METHODS OF INSTRUCTION

- Since this course is delivered online, candidates are responsible for understanding the assignments and learning the material. If questions arise, it is important to ask the instructor immediately for help since many of the tasks build on one another.
- Course design includes a combination of learning activities to strengthen the academic and professional competence of candidate's writing skills, presentation skills, collaboration, analysis, and practical application/experience.
- Learning activities may include, but are not limited to critical analysis submissions incorporating research, writing, and reflection; digital presentations with multimedia and/or interactive elements; collaboration opportunities through online discussion boards, wikis, or blogs; practical case studies requiring research, writing, and collaboration; and other projects and activities such as interviews, field visits, modeling, and videos.

COMMUNICATION

The course is designed to offer regular and substantive interaction between candidates and instructors. Both candidates and instructors are responsible for effective, appropriate, and timely communications and interactions in the course.

CANDIDATE COMMUNICATIONS: Candidates should initiate communications with instructors through Class Café or the ASU email system. Check frequently for announcements and reminders. Scoring rubrics and module information outline the specific interaction and communication requirements for each learning activity.

Course content and subject-specific questions should be posted to Class Café for interactions with other candidates and instructors about the content. Technical support concerns should be submitted to the IT Service Center via phone at (325) 042-2911 or toll-free at (866) 942-2911.

WRITTEN SUBMISSIONS: It is an expectation of this department that you use academic and professional writing skills. Candidates should follow APA guidelines for formatting and citations in all learning activities unless otherwise specified. Failure to utilize accurate APA citations and references constitutes plagiarism.

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.

(From "The Net User Guidelines and Netiquette" by A.H. Rinald, 1994, Florida Atlantic University. Adapted with permission.)

INSTRUCTOR COMMUNICATIONS: Instructors will provide communications relevant to the course and subject matter through weekly emails, Blackboard announcements, Class Café, interactions during learning activities such as moderating discussion boards, and feedback on submitted assignments. These course activities help build a sense of community among learners.

Instructors will typically respond to email within 24 hours. Class Café discussions will include both peer and instructor responses as appropriate to assist with candidate mastery of the subject. Instructors will typically provide feedback on assignments within 48-72 hours of submission of the assignment through Blackboard. Feedback communication is provided to candidates by instructors in Grade Center, Turn It In Feedback Center, or on scoring rubrics in Blackboard as appropriate for each assignment.

CANDIDATE PARTICIPATION

- Candidates are expected to be active learners. It is a basic assumption of the instructor that candidates will be involved discovering, processing, and applying the course information using peer-review journal articles and researching additional information through the ASU Online Library and Internet.
- Candidates are expected to engage with the material, their peers, and their instructors. Ensure that you are reading all of the materials provided in the Blackboard modules. Participate in discussions with your peers about the content through Class Cafe.
- If you have questions, it is important to ask immediately since many of the tasks build on one another.

ATTENDANCE

Distance course. Candidates are required to follow the course calendar and the expectations related to candidate participation. Candidates are expected to engage in course activities and submit assignments by due dates and times identified in the course calendar.

Faculty are required to confirm attendance of candidates in a course at the beginning of each term to the ASU Registrar Office as part of complying with regulations regarding the

administration of federal financial aid. In accordance with ASU processes and federal regulations, academic attendance in a course is considered active engagement which includes but is not limited to submitting an academic assignment or participating in an online discussion in the course about academic matters. Logging into an online course without active participation does not meet academic attendance requirements. The last date of course attendance for reporting to the Registrar will be the last date of active engagement in the course.

LIBRARY RESOURCES

Candidates should familiarize themselves with the numerous resources available through the Angelo State University Porter Henderson Library at www.angelo.edu/services/library/. Information on library resources is available in the Orientation tab of each course. This course also includes a special research librarian for the course, and candidates can contact them directly through a specific course discussion board. All candidate can also use the Ask A Librarian research support feature.

ASSIGNMENT SUBMISSION

In this class, all assignments need to be submitted through the posted Blackboard or TurnItIn link in the Blackboard course site. You should record the confirmation number received when you submit your work. Assignments are not accepted via email.

If a technology issue does occur regarding an assignment submission, email your instructor along with documentation that you notified the help desk. This process will document the problem and establish a timeline for submission.

LATE WORK OR MISSED ASSIGNMENTS

All learning activities should be submitted by the scheduled due dates. A 10% grade reduction may occur for each day the assignment is late. Documented medical or personal emergencies will be reviewed on a case-by-case basis with the appropriate documentation and in accordance with department policy.

POLICIES RELATED TO THIS COURSE

All candidates are required to follow the policies and procedures presented in the following documents:

- Angelo State University Student Handbook
<http://www.angelo.edu/student-handbook/>
- ASU Undergraduate and Graduate Catalog
<http://www.angelo.edu/catalogs/>
- Academic Calendar
https://www.angelo.edu/services/registrars_office/academic_calendar.php

ACADEMIC INTEGRITY

Candidates are expected to know and understand behaviors that can constitute academic misconduct. A plagiarism module is required of all candidates as part of their orientation to the program. Each course requires that the candidate complete a plagiarism statement acknowledging that the candidate completed the plagiarism module in the orientation, understands what plagiarism is, understands all work must be the candidate's original work, and understands the potential consequences of plagiarism.

The Angelo State University Student Handbook provides a detailed list of behaviors that constitute academic misconduct and plagiarism. Academic misconduct includes, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, violations of published professional ethics or standards, and/or any act or attempted act designed to give unfair academic advantage to oneself or another student.

STUDENTS WITH DISABILITIES

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.

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 at www.angelo.edu/ADA. 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

STUDENT ABSENCE FOR OBSERVANCE OF RELIGIOUS HOLY DAYS

Candidates can find information on the observance of religious holy days in ASU Operating Policy 10.19. Candidates should also review the information related to course attendance.

TITLE IX

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. Sexual discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. You are encouraged to report any incidents to ASU's Title IX Coordinator Michelle Boone at michelle.boone@angelo.edu or using ASU's online form at <http://www.angelo.edu/services/title-ix/file-a-complaint.php>.

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.

ASSIGNMENT OBJECTIVES & DUE DATES

Week	Assignment	Points	Objectives By the end of this course, the candidate will:	Description	Due Dates
1	Academic Integrity Statement	0	Define test and measurement as used in education.	Complete the Pre-Module activities including the Academic Honesty Statement.	Wednesday, August 21
	Academic Portfolio Creation	0		Create and/or upload screenshot of Academic Portfolio	Wednesday, August 21
	Class Café Introductions & Responses	0	Differentiate between qualitative and quantitative data and understand their uses. Gain an understanding of the nature and role of data	Introduce yourself to your classmates and respond to your classmates' posts.	Sunday, August 25
	Fundamentals of Data & Assessment	10		Internet investigation of data, testing, measurements, and assessments	Sunday, August 25
			Distinguish among the different types of validity of data.		

			Distinguish among the different types of reliability of data.		
2	Analyzing Research	10	<p>Discuss the findings resulting from the research</p> <p>Identify the research questions and purpose of an empirical research article</p> <p>Describe methods for collecting quantitative or qualitative data.</p> <p>Identify tools for collecting qualitative or quantitative data.</p> <p>Describe methods for analyzing qualitative or quantitative data.</p>	Evaluation of the key components of an empirical research article	Sunday, September 1
3	Statistics	10	Construct a spreadsheet with formulas for data analysis.	Develop a spreadsheet to analyze the collected and coded data.	Sunday, September 8
	Journal Entry #1: Initial Phases of Research and Variables	2.5	Identify different types of variables in research methodology.	<p>Research and reflect upon research questions, types of research, and hypotheses.</p> <p>Research and reflect upon variables.</p>	
4	Quantitative Research Analysis	5	Describe methods for collecting and analyzing qualitative and quantitative data.	Find a quantitative article and analyze the quantitative characteristics of the study.	Sunday, September 15
	Qualitative Research Analysis	5		Find a qualitative article and analyze the quantitative characteristics of the study.	

	Journal Entry #2: Data Gathering	2.5		Research and reflect upon data types, collection methods, and sampling methods.	
5	Quantitative Research Evaluation	10	Describe methods for collecting and evaluating quantitative and qualitative data.	Evaluate the key components of a quantitative study.	Sunday, September 22
	Qualitative Research Evaluation	10		Evaluate the key components of a qualitative study.	
	Journal Entry #3: Data Analysis	2.5		Research and reflect upon data analysis procedures.	
6	Journal Entry #4: Organizing Data & Reporting Results	2.5	Describe methods for organizing and reporting results.	Research and reflect upon how data is most effectively organized through tables, figures, graphs and charts. Research and reflect upon how research results should most effectively be reported.	Wednesday, September 25
	Initial submission of Empirical Research Article.	5	Use a data set to answer questions. Prepare a graduate-level empirical research paper based on quantitative and qualitative data collected.	Using coded class survey data, compose and answer three research questions about the class through a written empirical research article. (Initial draft.)	Sunday, September 29
7	Peer Review Initial Draft	5	Formulate and communicate constructive feedback on a peer's work	Engage critically with colleagues' papers, modeling scholarly discourse and academic scholarship	Wednesday, October 2

	Revised, final submission of Empirical Research Article	15	Prepare a graduate-level empirical research paper based on quantitative and qualitative data collected.	Using coded class survey data, compose and answer three research questions about the class through a written empirical research article. (This is a revision of the Module Six draft – this is your final paper.)	Sunday, October 6
8	Video Reflection and Proposal	5	Utilize technology to present their research experience and proposal in an audio/video presentation.	Demonstrate the ability to produce a cohesive, well-organized presentation of ideas. Reflect on their experience with educational research and evaluate their ability to apply newfound knowledge to engage in future research possibilities.	Tuesday, October 8
	Submit Academic Portfolio	0	Upload empirical research article and reflection into CPR Portfolio.	Present and defend judgments about the information and assignments related to tests and measurements.	Wednesday, October 9
	Course Evaluation	0	Submit Course Evaluation	Complete a course evaluation about the information and assignments related to tests and measurements.	Wednesday, October 9