SYLLABUS TABLE OF CONTENTS

COURSE INFORMATION .............................................................................................................. 2
INSTRUCTOR INFORMATION ..................................................................................................... 2
STUDENT LEARNING OUTCOMES ............................................................................................ 2
REQUIRED TEXTS AND MATERIALS ....................................................................................... 3
GRADING SYSTEM ..................................................................................................................... 3
METHODS OF INSTRUCTION .................................................................................................. 4
COMMUNICATION ...................................................................................................................... 4
CANDIDATE PARTICIPATION .................................................................................................... 5
ATTENDANCE .......................................................................................................................... 5
ASSIGNMENT SUBMISSION ...................................................................................................... 6
POLICIES RELATED TO THIS COURSE .................................................................................... 6
ASSIGNMENT OBJECTIVES & DUE DATES ............................................................................... 8
COURSE INFORMATION

COURSE NUMBER
EDG 6302

COURSE TITLE
Tests & Measurements

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 January 16, 2018, and ends on March 9, 2018.

COURSE DESCRIPTION
This course is 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
Jim Summerlin, Ph.D.
Email: Jim.Summerlin@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 candidate will:

- Define test and measurement 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 validity of data
• Distinguish among the different types of reliability of data
• Identify different types of variables in research methodologies
• Construct a spreadsheet with formulas for data analysis
• Describe the use of triangulation for validity
• Describe methods for collecting and analyzing quantitative data
• Describe methods for collecting and analyzing qualitative data
• Use a data set to answer research questions

REQUIRED TEXTS AND MATERIALS

REQUIRED TEXTS

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](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, 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.

The last date of access to the Blackboard course will be used as the last date of course attendance for reporting to the Registrar.
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

<table>
<thead>
<tr>
<th>Week</th>
<th>Assignment</th>
<th>Points</th>
<th>Objectives</th>
<th>Description</th>
<th>Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plagiarism Statement &amp; Certificate</td>
<td>0</td>
<td>By the end of this course, the candidate will:</td>
<td>Complete the Pre-Module activities including the Plagiarism Statement.</td>
<td>Wednesday, January 17</td>
</tr>
<tr>
<td></td>
<td>Academic Portfolio Creation</td>
<td>0</td>
<td>Define test and measurement as used in education.</td>
<td>Create and/or upload screenshot of Academic Portfolio</td>
<td>Wednesday, January 17</td>
</tr>
<tr>
<td></td>
<td>Class Café Introductions &amp; Responses</td>
<td>0</td>
<td>Differentiate between qualitative and quantitative data and understand their uses.</td>
<td>Introduce yourself to your classmates and respond to your classmates’ posts.</td>
<td>Sunday, January 21</td>
</tr>
<tr>
<td>2</td>
<td>Fundamentals of Data &amp; Assessment</td>
<td>15</td>
<td>Gain an understanding of the nature and role of data.</td>
<td>Internet investigation of data, testing, measurements, and assessments</td>
<td>Sunday, January 21</td>
</tr>
<tr>
<td></td>
<td>Class Survey</td>
<td>1</td>
<td>Differentiate between qualitative and quantitative data and understand their uses.</td>
<td>Complete a survey in order to gather quantitative and qualitative data for later use in the class.</td>
<td>Wednesday, January 24</td>
</tr>
<tr>
<td></td>
<td>Survey Reflection</td>
<td>4</td>
<td>Gain an understanding of the nature and role of data.</td>
<td>Reflection over the role of the questions that were asked in the</td>
<td>Wednesday, January 24</td>
</tr>
<tr>
<td>Week</td>
<td>Assignment</td>
<td>Points</td>
<td>Description</td>
<td>Due Date</td>
<td></td>
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<tr>
<td>5</td>
<td>Triangulation</td>
<td>10</td>
<td>Describe the use of triangulation for validity.</td>
<td>Sunday, February 18</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Journal Entry #3: Data Analysis</td>
<td>0</td>
<td>Research and reflect upon data analysis procedures.</td>
<td>Sunday, February 18</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Qualitative Research</td>
<td>10</td>
<td>Describe methods for collecting and analyzing qualitative data.</td>
<td>Sunday, February 25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Journal Entry #2: Data Gathering</td>
<td>0</td>
<td>Research and reflect upon data types, collection methods, and sampling methods.</td>
<td>Sunday, February 11</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Quantitative Data</td>
<td>10</td>
<td>Describe methods for collecting and analyzing quantitative data.</td>
<td>Sunday, February 11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Journal Entry #1: Initial Phases of Research and Variables</td>
<td>0</td>
<td>Research and reflect upon research questions, types of research, and hypotheses.</td>
<td>Sunday, February 4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>10</td>
<td>Construct a spreadsheet with formulas for data analysis.</td>
<td>Sunday, January 28</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Measurement (Graphic Organizer)</td>
<td>0</td>
<td>Develop a spreadsheet to analyze the collected and coded data.</td>
<td>Sunday, January 28</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>Find an empirical article related to the degree you are seeking that describes the variables of one of the levels of measurement.</td>
<td>Sunday, January 28</td>
<td></td>
</tr>
</tbody>
</table>

Research and reflect upon research questions, types of research, and hypotheses.

Research and reflect upon variables.

Find a quantitative article and analyze the study.

Find a qualitative research article, in which triangulation is reported, and explain how validity is achieved.

Find a qualitative study. Analyze and evaluate its
<table>
<thead>
<tr>
<th>Journal Entry #4: Organizing Data &amp; Reporting Results</th>
<th>10</th>
<th>analyzing qualitative data.</th>
<th>Research and reflect upon how data is most effectively organized through tables, figures, graphs and charts.</th>
<th>Sunday, February 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial submission of Empirical Research Article.</td>
<td>5</td>
<td>Submit initial empirical research article.</td>
<td>Using coded class survey data, compose and answer three research questions about the class through a written empirical research article.</td>
<td>Wednesday, February 28</td>
</tr>
<tr>
<td>Revised, final submission of Empirical Research Article</td>
<td>15</td>
<td>Submit revised and final empirical research article.</td>
<td>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 Seven draft – this is your final paper.)</td>
<td>Tuesday, March 6</td>
</tr>
<tr>
<td>Submit Academic Portfolio</td>
<td>0</td>
<td>Upload empirical research article and reflection into CPR Portfolio.</td>
<td>Present and defend judgments about the information and assignments related to</td>
<td>Wednesday, March 7</td>
</tr>
<tr>
<td>Course Evaluation</td>
<td>2</td>
<td>Submit Course Evaluation</td>
<td>Complete a course evaluation about the information and assignments related to</td>
<td>Wednesday, March 7</td>
</tr>
</tbody>
</table>

*Version Date: Approved for Spring A 2018 Courses*