



## **SWK 595: Techniques in Data Analysis for Social Work**

\*Techniques in Data Analysis

COURSE SYLLABUS: SUMMER 2023

### **INSTRUCTOR INFORMATION**

Instructor: Dr. Marcella Smith  
Office Location: Henderson 311  
Office Hours: Mondays 10:00-3:00pm or by appointment  
Office Phone: 903-468-8190  
Office Fax: 903-468-3221  
University Email Address: Marcella.Smith@tamuc.edu  
Preferred Form of Communication: **Email**  
Communication Response Time: Within 2 business days

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required:

Publication manual of the American Psychological Association (2019) 7<sup>th</sup> ed.  
Washington, DC: American Psychological Association

Software Required: Microsoft EXCEL

#### **Optional Texts and/or Materials**

**All MSW students** need to purchase the following set of study materials to prepare for the Graduate Comprehensive Exam that they will take in their final semester. You must pass the exam to receive your degree. It is never too early to begin studying for the exam.

**Comprehensive Study Guide (Masters, Clinical, Adv. Generalist) Version 9.0.**  
**Social Work Examination Services. [www.https://swes.net/study-materials/comprehensive-study-guide-lmsw/](https://swes.net/study-materials/comprehensive-study-guide-lmsw/)**

## Course Description

- This course provides instruction in data analysis using Microsoft Excel program. Students learn how to calculate descriptive statistics, t-Tests, ANOVA, and Chi-Square. Emphasis is placed on interpreting and reporting results of data for purposes of disseminating information and informing program/practice decisions

Prerequisite: SWK 595 is the second half of the research series for the AGP MSW program and students must take it sequentially in the semester immediately following their successful completion of SWK 590.

## Relationship to Other Courses:

**Student Learning Outcomes** (Should be measurable; observable; use action verbs)

Council on Social Work Education (CSWE) requires a competency-based approach to identify and assess what students demonstrate in practice. In social work, this approach involves assessing students' ability to demonstrate the competencies identified in the educational policy. Listed below are the competencies and associated knowledge, skills, values and/or cognitive and affective processes that comprise the expected outcomes for this course.

	Assignment/Assessment	Dimension
<b>Competency 4:</b> Engage in Practice-Informed Research and Research-Informed Practice		
Apply advanced level critical thinking to engage in analysis of quantitative and qualitative research methods and research findings	<i>weekly homework assignments, mid-term and final exams</i>	Skills, Cognitive -Affective Process

<ul style="list-style-type: none"> <li>Integrate and adapt research evidence to inform and improve practice, policy, and service delivery across the rural/urban landscape.</li> </ul>	<i>weekly homework assignments, mid-term and final exams</i>	Skills, Cognitive -Affective Process
<b>Competency 9:</b> Evaluate Practice with Individuals, Families, Groups, Organizations and Communities <i>as demonstrated by successful completion of weekly homework assignments; mid-term and final exams</i>		
<ul style="list-style-type: none"> <li>Critically analyze, appraise, and evaluate intervention and program processes and outcomes in both urban and rural environments and the intersection of both.</li> </ul>	<i>weekly homework assignments, mid-term and final exams</i>	Skills, Cognitive -Affective Process
<ul style="list-style-type: none"> <li>Apply evaluation findings to improve practice effectiveness at the micro, mezzo, and macro levels across the landscape of rural/urban and at the intersection of the two environments.</li> </ul>	<i>weekly homework assignments, mid-term and final exams</i>	Skills, Cognitive -Affective Process

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed**

In this class you will utilize the Learning Management Systems (LMS) D2L for instructional and learning opportunities, submitting your assignments, participating in online synchronous and asynchronous discussions, accessing resources, and completing quizzes/tests. Additionally, knowledge and skills in using Microsoft Word PowerPoint and Outlook Email, if you have any issues with using the various systems or software, it is your responsibility to contact support services and to notify the instructor of the problem.

### **Instructional Methods**

This course will be delivered via synchronous and asynchronous sessions via D2L and will consist of live class sessions, pre-recorded lectures, group engagement activities, various assignments with some including experiential learning and practical application of the content areas. In addition, small lectures, discussion activities and workshops may be utilized to provide instruction during this course.

### **Student Responsibilities or Tips for Success in the Course**

As a student in this course, you are responsible to engage in active learning and reaching out to the instructor if there are problems or challenges that is interfering in optimal learning. Communication is key when engaged in a fully online, virtual environment.

Expectations for success include:

1. Always demonstrate professional behavior, including demonstrating respect for instructor and peers; being open to feedback and guidance throughout this class and in the program.
2. Adhered to the School of Social Work and University student code of conduct, along with NASW Code of Ethics.
3. Begin reading the assigned text and supplemental readings as soon as possible, with a focus on completing all readings prior to engagement with instructor or peers.

4. Prepare to engage in live class sessions, discussions, and other activities so you can be a contributor as well as receiver of knowledge and skills.
5. Actively participate in engagement activities which will include live virtual class sessions, online discussions, and interactive learning opportunities -as this is vital for learning and success in both this course and the program.
6. Work ahead when possible, completing assignments ahead of due date so you are prepared to submit on the due date.
7. Sign into the D2L course multiple times during the week to access updated announcements or posted resources.
8. Check your university email daily. This is the official method of communication by the university, department, and instructor.
9. Be open and focused on the “process” and not the “product” as earning this degree requires time, effort, work and ultimately growth in knowledge, skills, abilities along with personal and professional attributes.

## **GRADING**

Final grades in this course will be based on the following scale:

A = 90%-100% of total points

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

## **Assessments**

1. Weekly Assignments (25 % of final grade)  
Students will complete various statistical assignments designed to teach and reinforce basic statistical concepts related to both descriptive and inferential statistical analysis
2. Mid-Term Exam (30% of final grade) Students will be provided a set of data with instructions to complete a statistical analysis and write a results report.

3. Final-Exam (45% of final grade) Students will be provided a set of data with instructions to complete a statistical analysis, write a results report and make a recommendation for a program based on results of data.

## TECHNOLOGY REQUIREMENTS

### LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

Zoom Video Conferencing Tool

[https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom\\_Account.aspx?source=universalmenu](https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu)

## ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

### Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

### **Interaction with Instructor Statement**

If you have any questions or are having difficulties with the course material, please contact your instructor via email. Instructor will respond to email queries within two business days

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

#### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

### **University Specific Procedures**

#### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

#### **TAMUC Attendance**

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

## Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)  
[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

**A Note on AI:** Any work written, developed, created, or inspired by artificial intelligence (AI) is considered plagiarism and will not be tolerated. While the ever-changing (and exciting!) new developments with AI will find their place in our workforces and personal lives, in the realm of education and learning, this kind of technology does not belong. This is because the use of AI robs us all of the opportunity to learn from our experiences and from each other, to play with our creative freedoms, to problem-solve, and to contribute our ideas in authentic ways. In a nutshell, college is a place for learning, and this class is specifically a space for learning how to improve our writing. AI simply cannot do that learning for us.

## Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

### **Office of Student Disability Resources and Services**

Texas A&M University-Commerce

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](#)



<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

### **Nondiscrimination Notice**

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

### **A&M-Commerce Supports Students' Mental Health**

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit [www.tamuc.edu/counsel](http://www.tamuc.edu/counsel)

## School of Social Work and Council on Social Work Education Specific Policies

### Course Engagement

#### Final Evaluation and Grade Depends on both Classroom attendance and Participation

Inadequate participation or lack of required time commitment in each class significantly affects students' grades. No matter the course venue, students must engage in a comparable amount of time. Expectations of both Face-to-Face classes and those with Online components include time spent reading and studying course material. To earn a level of competency within a specific course, students must demonstrate both mastery of content and active engagement.

Mastery of content areas is evidenced by successful completion of course assignments such as written papers, group project deliverables, tests/quizzes and other tangible products designed by instructors to evaluate knowledge and skills.

Additionally, the Social Work Profession is built upon human interactions and building human relationships – which is defined as engagement. Engagement is defined as meaningful involvement in interactions with instructor, peers, outside stakeholders as appropriate (such as contacting a social worker to interview for a required assignment). Within the classroom setting, whether virtual or F2F, students must actively participate in 80% of engagement activities as outlined by individual instructors. These activities may include, but are not limited to participation in live, synchronous virtual classes, attending a Face-to-Face course when appropriate, interacting with peers in posted discussions and collaborating in group interactive projects.

Students must meet standards for content mastery on tangible assignments and meet the threshold of active engagement of the time set during a semester by the instructor.

Instructors are experts in each course content area and set the standards for students to meet for successful completion of the course.

### Student Conduct

Students preparing to become professional social workers must adhere to the *University Code of Conduct*, *Department Code of Conduct* and *National Association of Social Workers' (NASW) Code of Ethics*.

### Department Code of Conduct

*"Faculty have the authority to request students who exhibit inappropriate behavior to leave the class/lab/internship practicum or to block access to online courses and may refer offenses to the [Academic and Professional Issues Committee (API)] or to the Department Head. More serious offences by be referred to the University Police Department and/or the Judicial Affairs Office for disciplinary action" (Student Guidebook p 35)*

Social Work students conduct themselves in an ethical and professional manner. Closely linked with professional recognition is the social worker's compliance with the profession's ethical standards. It is imperative for professional social workers to be competent and ethical in practice if the profession is to maintain the public trust. It is essential that each social work student gain a thorough understanding of the ethical principles that guide practice and actively demonstrate in behavior, both in and out of the classroom. Student conduct is to reflect the tenets of *NASW Code of Ethics* (located at <https://www.socialworkers.org/pubs/code/code.asp> ) on the NASW website: <https://www.socialworkers.org>

**University Code of Conduct** located in the *Student Guidebook* at <http://www.tamuc.edu/campuslife/documents/studentGuidebook.pdf> (pp 34- 66). On the University Website under Campus Life Documents

To become aware of university policies related to student academic and behavioral expectations for students refer to the Guidebook

#### Appendix A Grading Rubric for Homework, Mid-Term and Final Exam

	Does Not Meet Expectations 0-69% of pts available	Meets Expectations 70-89% of pts available	Exceed Expectations 90% or greater of pts available
Calculations	Incorrect statistical test chosen,	Correct statistical test chosen Calculations are correct, but final	Correct Statistical Test Chosen, Calculations correct, final

	Calculations are incorrect (final answer)	answer may be incorrect due to errors in entering data etc	answer correct and presented in organized manner on Excel sheets
Writing Results	No written interpretation presented, or incorrect interpretation	Written interpretation presented, most format correct for scientific information/APA	Written interpretation presented is correct, required scientific format and APA requirements

## COURSE OUTLINE / CALENDAR

Weeks/Dates	Zoom Meeting Dates	Topics	Assignments
<b>Week 1</b> <b>June 5-11</b>	<b>Zoom Monday, June 5 @ 7pm</b>	Introduction to Course; Review Syllabus; Course Expectations Review of Key Research Terms  Introduction & Overview of Excel Charts in Excel	Review Concepts from Spring 2023)
<b>Week 2</b> <b>June 12-18</b>		Descriptions of quantitative data  Measure of Central Tendency & Computing & Understanding Averages, Percentages, & Proportions	<b>Statistics Assignment #1 Due 6/18</b>
<b>Week 3</b> <b>June 19-25</b>	<b>Zoom Monday, June 19 @ 7pm</b>	Descriptive Statistics	<b>Statistics Assignment #2 Due 6/25</b>
<b>Week 4</b> <b>June 26-July 2</b>		Midterm Exam	<b>Midterm Exam due @ 11:59 7/2</b>

<b>Week 5</b> <b>June 3-July 9</b>		Bivariate Statistics & Statistical Inference--Ch. 12  Correlation	<b>Statistics</b> <b>Assignment #3 Due</b> <b>7/9</b>
<b>Week 6</b> <b>July 10-16</b>	<b>Zoom Monday,</b> <b>June 10 @ 7pm</b>	Independent Samples T- TEST Paired T-TEST	<b>Statistics</b> <b>Assignment #4 &amp; 5</b> <b>Due 7/16</b>
<b>Week 7</b> <b>July 17-23</b>		ANOVA	<b>Statistics</b> <b>Assignment #6 Due</b> <b>7/23</b>
<b>Week 8</b> <b>July 24-30</b>	<b>Zoom Monday,</b> <b>June 24 @ 7pm</b>	Chi-Square	<b>Statistics</b> <b>Assignment #7 Due</b> <b>7/30</b>
<b>Week 9</b> <b>July 31-August 6</b>		Work on Final Exam	
<b>Week 10</b> <b>August 7-10</b>		<b>Finals Week</b>	<b>Final Exam Due</b> <b>8/7</b>