



EDAD 604
Advanced Graduate Statistics
Course Syllabus
Fall 2024

INSTRUCTOR INFORMATION

Instructor: Professor Kriss Y. Kemp-Graham, PhD

Office Location: EDN 101

Office Hours: Virtual (Online) Mondays 11:00am to 1:00pm

Office Phone: 903-886-5520

Office Fax: 903-886-5507

University Email Address: kriss.kemp-graham@tamuc.edu

Form of Communication: email Communication Response Time: 24 hours or less

Required Text

Salkind, N. J. and Frey, B. B. (2019). *Statistics for People Who (Think They) Hate Statistics* (7th ed.). Thousand Oaks, CA: Sage. (Bundled with the Resource Study Guide for Education).

A free and open companion website for this textbook is available to help you study. This site, at edge.sagepub.com/salkindfrey7e, includes the data sets for the exercises in the book, as well as practice quizzes, flashcards, videos, and journal articles.

Required Software

Intellectus Login Instructions

1. Students and/or faculty purchase their Intellectus subscription from the Department of Education Leadership link:

a. One Year Access: Statistics Application and Course \$185.50

https://analyze.intellectusstatistics.com/create_account?key=gbK0GBvaA4YpOvOL

b. Six-Month Access: Statistics Application Only \$81.25

https://analyze.intellectusstatistics.com/create_account?key=YMfoPRCKMwETqP5u

2. If you don't have an account yet, click "Create one today."

3. Use any email address to create your Intellectus account. 4. After your Intellectus subscription has been purchased, have students and faculty who purchase their Intellectus Subscription through the link above must always log in from the Intellectus Website: <https://www.intellectusstatistics.com/>

I. Course Description

This course is designed to help educators learn how to perform statistical tests in Intellectus, interpret, and then report the results using current APA format. This is an 600 level doctoral course and is not intended to teach basic statistics. It is assumed that candidates have taken and passed EDAD 603. At

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the conclusion of this course, the student should be able to write up a result section to a quantitative dissertation. The focus will be to help candidates select the correct statistical test, run assumptions test, reject or fail to reject the nulls, and apply what they have learned in actual practice.

To maximize learning, it is advised that the candidate begins each module by taking the PreTest, reading the Salkind textbook chapter(s), review PPT and Lecture Notes, review ALL instructional videos, review Intellectus information and then complete practice assignments. Finally, at the end of the module the student should take the post quiz. The module quiz will be used to evaluate individual understanding of the content and basic theory underlining each statistical analysis.

II. Course Objectives

- The major objectives of this course are:
- To develop an understanding of the role played by statistics in the overall process of research;
- To learn an array of descriptive procedures for displaying statistical information in graphic and narrative form;
- To learn a variety of tests and procedures that can be useful in data analysis, subsequent hypothesis testing and decision-making activities;
- To demonstrate a critical understanding of how these tests can be used, their major weaknesses and strengths, and the critical assumptions underlying their legitimate application;
- To provide a foundation of statistical knowledge for pursuing more advanced statistical methods in future courses; and
- To learn to apply statistical concepts, scientific reasoning, and logic to social problems.

III. Course Content

A basic understanding of statistical methods is foundational to understanding and utilizing social science research.

IV. Course Structure

Class sessions will be a combination of lecture, discussion, and in-class exercises. Lecture material is intended to supplement, not review, the readings. Because the readings are a major source of learning, students are expected to study this material as it is assigned.

HAVE FUN! In spite of what you may have heard (or experienced in the past), numbers are not EVIL. Exposure to numbers will not cause erosion of your passion to help your clients. But numbers are necessary. You'll see them on almost every research article you read for the rest of your life. They are in the newspaper every day (if you're one of those students old enough to remember what a newspaper is). They are even underneath those nifty pie charts and graphs on your favorite news Web site. Basically, there are two kinds of people in this world – those who understand numbers and those who will be misled by them. Which do you want to be?

READ! Every week you will be expected to read at least two things. First, you need to read the assigned chapters in the textbook. I really apologize for requiring this because statistics textbooks are usually quite difficult to understand on first reading (but I really hope we find Salkind to be different). Do it anyway. All the important stuff will also be covered in class (I hope), but you'll probably need to see it all multiple times before it really sinks in.

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DON'T GIVE UP! If you don't give up on me, I won't give up on you. As far as I'm concerned, this is your class. Let's work together to see if we might be able to become a user of numbers instead of someone who is easily duped.

IX. Consultation

Students are invited to contact the instructor with questions, comments, and concerns. While this course is intended to adequately prepare students for additional graduate studies in research methodology and statistics, support and encouragement is available to make it a positive experience for every student

Assignments are to be turned in electronically no later than the date they are due for credit. LATE ASSIGNMENTS ARE NOT ACCEPTED. PLEASE SEE COURSE CALENDAR FOR ALL DUE DATES.

Grading

Grades will be determined on a total point basis, covering multiple assignments outlined in the syllabus and found in the D2L course shell listed by week. Grades will be posted in point values in D2L. The final points will calculate on a percentage scale covered to a letter grade according to the following scale:

90-100 = A = Excellent/Outstanding
80-89 = B = Good/Noteworthy
70-79 = C = Average/Proficient
60-69 = D = Below Average
59-below = F = Unacceptable

POST TEST	20%
EXAMS	30%
APPLICATION	20%
FINAL	30%

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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

Zoom Video Conferencing Tool

https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universitymenu

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.

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>

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

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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 Procedures 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>

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

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Velma K. Waters Library Rm 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: 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

Mental Health and Well-Being

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The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



AI use policy

Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course. Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism). Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed. In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty

Department or Accrediting Agency Required Content

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Class Schedule

Subject to modification at instructor's discretion.

Module	Reading Assignment	Assessment
1	Chapter 9	Pre/Post/Application
2	Chapter 10	Pre/Post/Application
3	Chapter 11	Pre/Post/Application
4	Chapter 12	Pre/Post/Application/ Exam (9-11)
5	Chapter 13	Pre/Post/Application
6	Chapter 14	Pre/Post/Application
7	Chapter 15	Pre/Post/Application Exam(12-14)
FINAL		FINAL Chapters 9-15

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