

Course Syllabus: Data Based Decision Making  
College of Enter here  
EDLE 6073 Section X10/DX1  
Summer 2023

Contact Information

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Instructor Response Policy

I will respond to emails/texts within 24 hours. I do not look at D2L every day. If you need a quick response email the address above.

Textbook & Instructional Materials

Salkind, N.J (2020). *Statistics for people (who think) they hate statistics*. (7<sup>th</sup> ed). Los Angeles. Sage

Pallant, J. (2020). *SPSS Survival Manual*. (7<sup>th</sup> ed.). New York. McGraw Hill

Course Description

Objective of this course is to prepare educational leaders to understand how to use data to solve problems in schools. Data sets utilized emerge from school and district level problems. The tools presented are oriented toward understanding what the data means, how to properly evaluate it and also present the data in a usable format. The course includes a section of presenting complex information to a broader, community-based audience, rather than an academic audience.

Course Objectives/Learning Outcomes/Course Competencies

This course is designed to provide students with data analysis techniques for basic inferential statistics. After completing this course, students should be able to: (1) generate meaningful research questions and statistical hypotheses, (2) answer research questions by analyzing data using statistical software such as SPSS, and (3) interpret statistical information.

## Student Handbook

Refer to: Student Handbook-2019-20

### Academic Misconduct Policy & Procedures

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct.

More specifically, plagiarism can occur in many ways. One, if a student uses the work of another student and presents it as the student's own, that is considered plagiarism and will result in a 0 on the assignment. If a student has a significant amount of narrative from other sources presented as his/her own (determined by % match in Turnitin), that is considered plagiarism and will result in a 0 on the assignment. Each draft submitted will have an associated plagiarism match provided by Turnitin. You may have one direct quote (cited in APA format). All other material must be cited AND original to the student.

### Grading/Assessment

#### Course Evaluation

Homework 4*50 points each -	200 points
Mid-term exam	100 points
<u>Final exam</u>	<u>100 points</u>
Total	400 points

#### Grades

A	360-400
B	320-359
C	280-319
D	240-279
F	0-239

### Homework

There will be multiple homework assignments given in this course, many of which will require your use of SPSS. The goals of these assignments are: (1) to ensure you understand how to input data; (2) to ensure you understand how to run various analyses discussed in the course; and (3) to ensure you understand how to interpret SPSS output. Per the latter, many of these assignments will involve you interpreting the results of output in a written document. Written reports of output should follow APA style (7th edition), and should be treated as if included in a manuscript. The homework is take home, open source. However, your answers are yours alone.

### Mid-Term and Final Exams

Both the Mid-Term and Final Exam are applications of exercises and homework you have completed in class. They are intended to assess your ability to make

decisions about data, which tests to run, interpret results and write in a professional manner. Both exams are take home, open source. However, your answers are yours alone.

#### Extra Credit

Nope

#### Late Work

Also nope

#### Make Up Work/Tests

Still nope

#### Important Dates

Last Day to drop with a grade of "W:" July 13

Refer to: Drops, Withdrawals & Void

#### Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into D2L through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

All assignments are submitted as word documents in D2L. Word press, PDF, google docs, etc.. are not accepted and will be counted as 0.

#### Attendance

This is a hybrid course so attendance is not part of the requirement in the online portion. However, the course is challenging. If you do not stay on top of the reading, you will quickly get left behind.

General guidelines for time commitment are as follows.

2-3 hours per hour of course credit for class preparation (reading)

1 hour per hour of course credit for course engagement (course engagement, watching videos, discussion etc..)

This means for a 3 hour course you should expect to devote 10-12 hours per week.

## Online Computer Requirements

Taking an online class requires you to have access to a computer (with Internet access) to complete and upload your assignments. It is your responsibility to have (or have access to) a working computer in this class. Assignments and tests are due by the due date, and personal computer technical difficulties will not be considered reason for the instructor to allow students extra time to submit assignments, tests, or discussion postings. Computers are available on campus in various areas of the buildings as well as the Academic Success Center. Your computer being down is not an excuse for missing a deadline!! There are many places to access your class! Our online classes can be accessed from any computer in the world which is connected to the internet. Contact your instructor immediately upon having computer trouble. If you have technical difficulties in the course, there is also a student helpdesk available to you. The college cannot work directly on student computers due to both liability and resource limitations however they are able to help you get connected to our online services. For help, log into D2L.

## Resources

Our lab has SPSS available. However, we want you to have the convenience of working from home on this as well. To do that you will need access to a computer with a high-speed internet connection and the following software: Microsoft PowerPoint, Microsoft Word, and IBM® SPSS® Statistics Standard GradPack 27 or 28. We have made arrangements for this through the software provider and you should have been contacted by Amy Chase. If that has not happened, let me know ASAP.

## Change of Schedule

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

## Refund and Repayment Policy

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. HOWEVER, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exist in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

## Services for Students with Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational

programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to Disability Support Services.

## College Policies

### Smoking/Tobacco Policy

College policy strictly prohibits the use of tobacco products in any building owned or operated by MSU TEXAS. Adult students may smoke only in the outside designated-smoking areas at each location.

### Campus Carry

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes has prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

### Active Shooter

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [Safety / Emergency Procedures](#). Students are encouraged to watch the video entitled "Run. Hide. Fight." which may be electronically accessed via the University police department's webpage: ["Run. Hide. Fight."](#)

### Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

### Grade Appeal Process

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University MSU Catalog

### Notice

Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

Topics	Corresponding Chapters	Grades
Introduction Course Requirements and Expectations		
Descriptive statistics, charts, histograms	Salkind 2-4 and 8 Pallant 6-8	
Hypothesis Testing, t-tests	Salkind 7, 9-12 Pallant 17	
ANOVA (One way, repeated measures, maybe ANCOVA and two way)	Salkind 13 Pallant 18	HW #1 (Covers topics through t-tests) Due June 16
	Salkind p. 335 Pallant 22	
		HW #2 Due June 30 (Covers ANOVA and related topics)
Mid-Term		Due July 7 9AM
Correlation	Salkind 5, 15 Pallant 11	
Linear and Multiple Regression	Salkind 16, p 335 Pallant 13, 14	
Linear and Multiple Regression	Salkind 16, p 335 Pallant 13, 14	

		HW #3 Due July 21st (Covers topics Correlation and Regression)
Non-parametrics	Salkind 17, Pallant 16	
Non-parametrics continued		
		HW #4 Due August 4 (Covers topics Non- parametrics)
Final		Due August 10th 9AM