



# PSY210

## Applied Statistics for Social Science

Dr. Ciara Kidder

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Admin 301 H

## Why should you take (and be interested) in this class?

This course will introduce you to concepts and critical thinking skills that are used in various disciplines and that will help you learn to think like a scientist. Thinking like a scientist will help you to evaluate information, make decisions, and solve problems in your future career and in your everyday life.



### About Your Professor

Dr. Kidder is an assistant professor of psychology at Marian University. She completed her Bachelors in Psychology at Lock Haven University in Pennsylvania and her Masters and Ph.D. at the University of Texas at El Paso. There, she taught as a graduate student instructor. Dr. Kidder teaches general psychology, statistics for social science, research methods, social psychology, and history and systems in psychology. She and her family (husband and one child) have lived in Fond du Lac since 2016.

### Contact Information

#### Dr. Kidder's Office Hours:

Monday/Wednesday 1-2; Tuesday 9-10:30; Friday 10:30-12:30 or by appointment.  
Admin 301H.

#### Email:

[ckkiddero8@marianuniversity.edu](mailto:ckkiddero8@marianuniversity.edu)

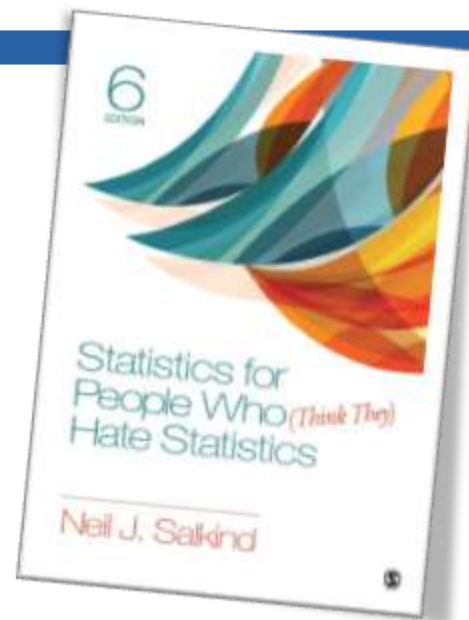
## Textbook

We will be using Salkind, *Statistics for People Who (think They) Hate Statistics*, 6<sup>th</sup> Edition for this course.

ISBN: 9781452277714

You will also need to purchase the course booklet from the bookstore. This booklet contains lecture notes, worksheets, and assignment descriptions.

You will also need reliable internet access and a working knowledge of MO2. Homework assignments, quizzes, and exams will be completed and/or submitted online. Because of the nature of technology, you need to anticipate that there are sometimes outages. If you go to submit your assignment at 11:50pm and there is an outage, you may miss the deadline, and the assignment. You will also need to regularly check your



university email for course announcements.

## Teaching Strategies

This class will not follow the format of a typical class where a professor lectures during the class time and then you go home and complete homework. In the typical class, the first and easiest stage of learning, knowledge acquisition, is done in the classroom and the second and harder stage, application, is done at home. In our class, this model is being “flipped”. I will assign readings and or

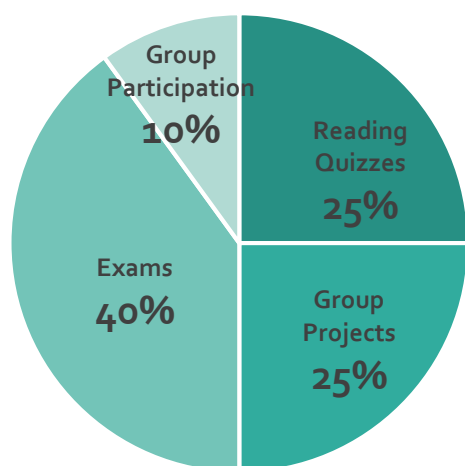


videos to be completed before class. This homework requires you to engage in knowledge acquisition. After

completing the readings, you will be quizzed to check for understanding. This means that I expect some learning to take place on

your own. In class, we will focus on the application stage through activities, discussions, etc. By adopting this strategy, I will be there while you work through the harder part of learning, able to easily answer questions and offer guidance. This will also make classes more engaging and enjoyable for you.

## GRADING SCHEME



## LETTER GRADES

100-92.5%	A
92.4-89.5	A-
89.4-86.5%	B+
86.4-82.5%	B
82.4-79.5%	B-
79.4-76.5%	C+
76.4-72.5%	C
72.4-69.5%	C-
69.4-66.5%	D+
66.4-62.5%	D
62.4-59.5%	D-
Below 59.5%	F

# Assignments

**Reading Quizzes.** To measure your basic understanding of the topics presented in the assigned readings, there will be online quizzes each week, located on MO2. These quizzes are adaptive, meaning that you will have multiple attempts to answer each question, but with each attempt, your score on that question is lowered. You will have two chances to take each quiz. Your two lowest quiz grades across the semester will be dropped. These dropped grades will include quizzes you miss for any reason, including technical difficulties. These quizzes should be completed on real computers and not on mobile devices. These quizzes should be taken individually without help from others. Gathering around a computer with friends to take the quiz, taking screen shots or writing down the correct answers and sharing them with others does not help your learning and is collusion (a form of academic dishonesty - see below). All quizzes will be made available a week before the due date. All quizzes will be due at 11:59pm on the due date (see course schedule).

**Group Projects.** At the beginning of the semester you will be assigned to a permanent group. Throughout the semester you will be working together on three different projects. These assignments are designed to get you thinking in depth about

topics as we go along and to evaluate your mastery of the learning objectives. Detailed instructions for these assignments are available in your booklet and on MO2. Everyone will receive the same grade for these assignments.

**Group Participation.** In order to account for differences in the efforts of group members, group members will confidentially rate each other's participation on each group project. These ratings will be combined and will be translated into an individual participation grade, worth 10% of your final grade.

Group members who consistently fail to participate in the group projects may be removed from the group. Upon removal, the individual will complete the remaining projects on their own and will receive 80% of the points awarded. Removal of any group member must be done through the instructor.



**Case Studies.** In the place of in-class examinations, you will complete four take-home case studies. These case studies will measure the extent to which you have mastered the basic skills and how well you can apply those skills in a variety of settings. A component of these case studies will include completing SPSS tasks, so plan accordingly. You may use your notes and the text to complete the exam. However, these exams should be taken individually without help from others. Gathering with friends to work on the exam together, sharing answers or exams with others, or saving exam questions and/or answers for future students does not help

your learning and is collusion (a form of academic dishonesty - see below). I will be able to tell if you worked together!!

**In-Class Activities.** Much of class time will be spent working on what we've learned through various class activities because *in statistics the key to success is to practice, practice, practice!* Many of these activities are located in the booklet you purchased for the class. Questions will be embedded during mini-lectures and will provide you with practice as well as immediate feedback on how well you are learning the material. It is important that you bring your

booklet to class with you each day so that you can be fully engaged in the material and the class.

**Extra Credit.** You have the opportunity to earn up to 3% extra credit towards your final grade. To earn this credit, you must meet with me outside of class, over the course of the semester to ask questions or get feedback on assignments. To earn all 3%, you will need to attend three meetings during three of the four units in the course. The cut-off for each unit is the day prior to the exam. You will not be able to make-up meetings to earn extra credit at the end of the course.

## Course Policies

### Attendance Policy.

Attendance will be taken daily and reported to various offices on campus. Although attendance is not a direct portion of your grade, attending class is particularly important for success in this class.

Significant class time will be spent completing in-class activities and software tutorials for outside of class assignments. Missing class means that you will be missing out on the valuable experiences. Since attendance is not part of your grade you do not need to contact me in advance of missing class. **You**

**are expected to review the missed materials on your own time and arrange time to meet with me if you have further questions.** PLEASE NOTE prolonged medical absences make it impossible to evaluate your knowledge and skills and thus, will negatively impact your grade

**Late Work.** I understand that things happen in your lives. Because of that, you have ONE, automatic, 48hr extension on any assignment (excluding case studies and the final group assignment), no questions asked. If you wish to use this extension, simply send

me an email BEFORE the assignment is due, to let me know that you are using your free pass. All other late work will be accepted only on a case-by-case basis.

### Classroom and Campus

**Expectations.** Students are encouraged to maximize their learning experience at Marian University. Ideal learning takes place in an environment where trust, mutual respect and active engagement are valued and observed by all participants. Students at Marian University are expected to conduct themselves in a manner appropriate to a professional setting. Students are expected to be respectful of the learning

environment established by the instructor. No student has the right to be disruptive, disrespectful or uncivil in their conduct – including language – in any setting at Marian University, including online, Facebook, and other web-based venues. A student who the instructor believes is acting inappropriately in the classroom may be asked to leave the class for a session or longer, or may be administratively withdrawn by University officials.

**Academic Honesty.** The rules and procedures dealing with academic honesty set forth in the Marian University Academic Bulletin will be followed in this class. Students are expected to have familiarized themselves with these rules and procedures. This applies to cheating, plagiarism and intentional misrepresentation of the truth. If a paper is prepared by a student for this class, it is

expected that the paper will be the student's own work and that any use of the work of another in a student's paper be properly quoted and cited.

**Statement Regarding Persons with**

**Disabilities.** Marian University will provide reasonable accommodations to qualified people with disabilities. If you feel you need accommodations to fully participate in this class, please contact Lisa Olig, Coordinator of Disability Services and Academic Support, at 920-923-8951.

**Statement Regarding Students with Temporary Impairments/Injuries.**

Students with temporary impairments due to injury, surgery, or recovery from surgery, may request short-term accommodations from Lisa Olig, Coordinator for Disability Services and Academic Support at 920-923-8951.

**Marian University Credit Hour Policy Statement.**

According to commonly-accepted collegiate academic practices, success in this 3-credit course requires work equivalent to a minimum of 135 hours of work: approximately 45, one-hour class periods and 90 hours of work outside of class. With about 15 weeks of classes, that's about six hours of homework each week. Usually, you won't have this much work outside of class, but you should keep these guidelines in mind throughout the semester. Coursework includes: lessons, in-class activities, application assignments, exams, and the final project.

# Course Schedule

Date	Homework due by 11:59 before	Class Period
1/22		Introduction to the Course
1/24	Quiz 1: Kinds of Research	Kinds of Research
1/29		Samples and Populations
1/31	Quiz 2: Variables and Hypotheses	Variables
2/5		Hypotheses; Group Formation
2/7	Quiz 3: Types of Data	Data; Case 1 Assigned
2/12		<i>Assignment 1 Work Day</i>
2/14	<b>Case 1 Due</b>	Intro to SPSS
2/19	Quiz 4: Central Tendency and Graphing	Central Tendency and Graphing
2/21	Quiz 5: Variability	Variability
2/26	<b>Assignment 1 Due</b>	Variability
2/28		SPSS Descriptive Stats; Case 2 Assigned
3/5	Quiz 6: Probability	Probability
3/7	<b>Case 2 Due</b>	Significance Testing
3/12 -14	<b>No Class; Spring Break</b>	
3/19	Quiz 7: Chi-Square	Chi-Square
3/21	Quiz 8: Correlation	Correlation
3/26	Quiz 9: Regression	Regression
3/28		SPSS: Correlation; Case 3 Assigned
4/2	<b>No Class; Easter Break</b>	
4/4	Quiz 10: z-test	z-test
4/9	<b>Case 3 Due</b>	<i>Assignment 2 Workday</i>
4/11	<b>No Class; Attend Academic Symposium: Assignment on MO2</b>	
4/16	Quiz 11: Independent t-test	Independent t-tests
4/18	Quiz 12: Dependent t-test; <b>Assignment 2 due</b>	Dependent t-tests
4/23		SPSS: Experimental; Case Study 4 Assigned
4/25		<i>Final Project Work Day</i>
4/30	<b>Case 4 Due</b>	<i>Final Project Work Day</i>
5/2		<i>Final Project Work Day</i>
5/7-11	<b>Final Exam: Group Presentations</b>	

*The instructor reserves the right to modify this syllabus during the semester to reflect the learning objectives and needs of the students in this course.*