

PSY 395: Research Design and Measurement in Psychological Research Fall 2021

Asynchronous Lectures, posted on D2L

In Person Labs (see below for times/locations)

Optional Virtual Discussions with Dr. Neal (see schedule for dates/times)

Part 1: Course Information

Instructor Information

Instructor: Dr. Jennifer Watling Neal

Virtual Office: <https://msu.zoom.us/j/94376795022>

Virtual Office Hour: Tuesdays 11-12pm

E-mail: jneal@msu.edu

Textbook

There is one required textbook for this course. Please make sure to order the 2nd edition of the textbook:

Dixon, J.C., Singleton, R.A., & Straits, B.C. (2018). *The process of social research* (2nd edition). New York: Oxford University Press. (ISBN: 978-0190876654)

Here is the link to the book on Amazon: <https://www.amazon.com/Process-Social-Research-Jeffrey-Dixon-dp-0190876654/dp/0190876654>

Course Materials

To fully participate in this course, you will need:

- Access to broadband internet
- Access to a computer that will allow you to access D2L and to run the Zoom and JASP software described below

Software

Your optional discussions will be held in Zoom. You will need to have the Zoom software installed on your computer. It can be downloaded here:

<https://zoom.us/download>

We will also be using statistical software in the labs and for several of your course assignments:

JASP Team (2020). JASP (Version 0.12.2)[Computer software].

The software is free and is available for both PC and Mac operating systems. You will need to download this software to your computer from this website: <https://jasp-stats.org/download/>

Course Webpage

The course webpage is located on D2L (<https://d2l.msu.edu/>). On this page, you'll find important course information including asynchronous class lectures, class powerpoint slides and grades. All assignments and exams will also be administered through this course webpage.

Course Description & Objectives

Welcome to Psychology 395! This course is designed to build your skills in the steps that it takes to conduct a research project in psychology. There are 5 main objectives that will be accomplished through a series of class lectures, labs, and assignments. This course will help you:

1. Learn to develop research questions and generate hypotheses
2. Understand the principles of measurement necessary to conceptualize and operationalize key psychological phenomena
3. Learn about different ways to collect data to examine your research questions and hypotheses
4. Select, perform, and interpret statistical analyses to test your hypotheses
5. Effectively communicate your results through scientific presentation and writing

By accomplishing these objectives, you will not only learn how to produce psychological research but will also learn how to be a savvy consumer of it.

Things Still Aren't Completely Back to Normal

This semester is obviously still not a completely normal semester. We are still in the middle of a global pandemic that is stressful for everyone, and that has health consequences for some. There will be distractions and you may have challenges come up in your personal lives. In addition, because my lectures are virtual, it's harder for me to get to know you. However, with a little patience and despite these challenges, I'm certain that we can still have a great time together learning about research methods. Please make sure that you are taking time this semester for self-care (for you and your family).

Our Course Format

There are three different components to this class:

1. **Asynchronous lectures:** I will be conducting weekly course lectures. These prerecorded lectures are asynchronous, providing you with flexibility to watch them any time during their assigned week. Lectures will be posted to D2L no later than the beginning of their assigned week (i.e., Monday) on our course syllabus. It might be tempting to put off watching lectures because they are asynchronous. However, I will be presenting materials in lectures that will be

important for your success on class assignments, your survey project, and the exams. Viewing these lectures will reinforce course content that you need to understand to do well on assignments, your survey project, and the exams. Therefore, if you want to do well in class, you should watch the lectures during their assigned week and should be pausing the video periodically to take notes. The use of any provided course materials (including course lectures) for purposes of sale and distribution is prohibited.

2. **In-person lab sections with your TAs:** Your TAs will be conducting weekly 2-hour lab sessions with you. These lab sections are in-person and you are expected to attend your section's lab at the time listed below. Your TA will take attendance in lab and you will receive attendance points that count toward your total grade in the class (see Course Activities below for more information). Lab attendance is critical for your success on class assignments, your survey project, and the exams. **You will not do well in this course if you do not attend lab sessions.**
3. **Optional Discussions with me:** Throughout the semester, I will host three optional discussion sessions. These discussion sessions will take place on Zoom and I will use them to reinforce materials in your lectures/labs, answer your questions about the course, and talk about special topics (e.g., getting involved in research at MSU). You can see the dates of these optional discussion sessions in the course schedule below. Please use the following Zoom link (<https://msu.zoom.us/j/93690441938>) and password to attend: Psy395.

Prerequisite

Because PSY 395 is a research methods class, it will involve applying statistics that you learned about in PSY 295, such as correlations, t-tests, ANOVAs, and/or basic regression. Don't worry! We'll be reviewing these statistical tests in class and in labs. However, if it's been awhile since you have taken statistics, you'll likely benefit from reviewing this material. If you have any specific concerns about your understanding of the material from PSY 295, please don't hesitate to contact your TA or me.

Laboratory Sections

Labs begin meeting during the Week 2 (9/7 – 9/10).

Please note that labs do not meet on the following dates:

- Monday lab sections will not meet on 9/6 due to Labor Day
- Monday and Tuesday lab sections will not meet on 10/25 or 10/26 due to Fall Break Days
- Wednesday and Thursday lab sections will not meet on 11/24 and 11/25 due to the Thanksgiving holiday

You must attend the lab section for which you are officially registered. Here is the list of laboratory sections and TAs:

Section	Day of the Week	Time/Location	TA Info
001	Monday	10:20 – 12:10pm Olds Hall 012	Name: Lili Gloe Email: rothsch7@msu.edu Office Hour: 1-2pm Tuesdays Location: Virtual – https://msuhipaa.zoom.us/j/93603604779
002	Monday	4:10 – 6:00pm Olds Hall 012	Name: Brian Brutzman Email: brutzman@msu.edu Office Hour: 10-11am Wednesdays Location: Virtual- https://msu.zoom.us/my/bbrutzman (password: research)
003	Wednesday	12:40 – 2:30pm Olds Hall 012	Name: Toni Smith Email: smit3094@msu.edu Office Hour: 3-4pm Wednesdays Location: Virtual – https://msu.zoom.us/j/93463334286
004	Tuesday	4:10 – 6:00pm Olds Hall 012	Name: Katie Leahy Email: leahyka1@msu.edu Office Hour: 1-2pm Tuesdays Location: Virtual – https://msu.zoom.us/j/94750366383 (password: psy395)
005	Thursday	4:10 – 6:00pm Olds Hall 012	Name: Daisuke Katsumata Email: katsuma2@msu.edu Office Hour: 2:30-3:30pm Thursdays Location: In Person- Psychology 213 & Virtual – https://msu.zoom.us/j/98796490636
006	Thursday	12:40 – 2:30pm Olds Hall 012	Name: Lili Gloe Email: rothsch7@msu.edu Office Hour: 1-2pm Tuesdays Location: Virtual – https://msuhipaa.zoom.us/j/93603604779

007	Wednesday	10:20 – 12:10pm Olds Hall 012	Name: Katie Leahy Email: leahyka1@msu.edu Office Hour: 1-2pm Tuesdays Location: Virtual – https://msu.zoom.us/j/94750366383 (password: psy395)
008	Wednesday	4:10 – 6:00pm Olds Hall 012	Name: Daisuke Katsumata Email: katsuma2@msu.edu Office Hour: 2:30-3:30pm Thursdays Location: In Person- Psychology 213 & Virtual – https://msu.zoom.us/j/98796490636
009	Monday	8:00 – 9:50am Olds Hall 012	Name: Brian Brutzman Email: brutzman@msu.edu Office Hour: 10-11am Wednesdays Location: Virtual- https://msu.zoom.us/my/bbrutzman (password: research)
010	Wednesday	8:00 – 9:50am Olds Hall 012	Name: Toni Smith Email: smit3094@msu.edu Office Hour: 3-4pm Wednesdays Location: Virtual – https://msu.zoom.us/j/93463334286

Undergrad TAs

There are two undergraduate TAs for this class. They will be assisting with note taking in labs and will also host weekly office hours (see below):

Emily Sokol	Email: sokolem1@msu.edu Office Hour: 10-11am Mondays Location: https://msuhipaa.zoom.us/j/97133540385
Claire Kaczmarek	Email: kaczma40@msu.edu Office Hour: 11-12pm Wednesdays Location: https://msu.zoom.us/j/93226536900

Part 2: Course Activities and Grading

Grading

There are **500 points** available to earn in this class. The breakdown of course points and % of final grade by activity are provided below:

Activity	Points	% of Final Grade
Top 4 (out of 5) Exams	50 points each (200 total points)	40%
4 Assignments	25 points each (100 total points)	20%
Final Survey Paper	125 points	25%
Twitter Poster	25 points	5%
Lab Attendance (up to 10)	5 points each (50 total points)	10%
Total	500 points	100%
Extra Credit	up to 10 points	up to 2%

Your final grade will be based on the number of points you have earned on course activities:

Grade	Points
4.0	450 – 500 points
3.5	425 – 449 points
3.0	400 – 424 points
2.5	375 – 399 points
2.0	350 – 374 points
1.5	325 – 349 points
1.0	300 – 324 points
0.0	Less than 300 points

If you are less than 1 point from a grade cut-off, I will round your grade up (e.g., if you have 449.5 points at the end of the semester, you would receive a 4.0 in the class). Otherwise, I will adhere strictly to these cut-offs for grades. Extra credit is the only way to increase your point total if you are concerned about falling on the wrong side on one of these cut-offs. At the end of the semester, if you believe that I made an error in calculating your grade, please let me know. I will check your grade, and I will change it if I have made an error. **This is the only circumstance under which I will change a grade.** Under no circumstance will I “bump up” your grade or give you a special extra credit opportunity. I never do this, so please don’t ask. **There will be no exceptions.**

Course Activities

Exams. Five exams will be given online in D2L – four during the regularly scheduled class period, and one during the final exam period. The first four exams emphasize material covered since the previous exam (in lecture and lab). The final exam is cumulative. Each exam will include multiple-choice questions. Only 4 of your exam scores (the four highest) will be included in your final grade and will account for 40% of your final grade. At the end of the semester, if you

have taken all four of the midterms and are happy with your grade, you do not need to take the final exam.

Each exam will be available to begin on D2L for 24 hour period starting at midnight and ending at 11:59pm Eastern time during the designated week/day listed on the course schedule below (e.g., Midterm Exam #1 will be available on Tuesday 9/21). It is your responsibility to take each exam within the time window provided. Once you start an exam in D2L, you will have a **50 minute time window to complete it**. Please make sure to only start the exam if you are sure that you have a 50 minute window, free of interruptions, as you cannot stop and restart the exam at a later time period.

Missed Exam Policy: If you miss an exam for any reason (e.g., illness, concussion, family emergency, religious observance, computer issues), it will not count against your grade because only 4 of 5 exam scores in the course will be included in your final grade. You do not need to provide any documentation for the first missed exam. Please do not ask me to make up an exam if it is the first one you've missed. If you miss a second exam, you can take a makeup exam only if you have a valid, documented excuse (e.g., a note from the dean, a note from your doctor recommending that you not attend class). Any notes must explicitly state that "This student was unable to take the exam on <scheduled day of exam> because _____." The note cannot come from someone in your family. **You must notify me that you have a valid excuse within 2 business days of the scheduled date of the exam or you will not be allowed to take the makeup exam.**

Assignments. There are several course assignments designed to help you learn how to design and conduct a psychological research study. Each assignment is worth 5% of your grade. These assignments include the following:

1. **Assignment 1 - Consuming Research:** You will write a brief paper (up to 2 pages) summarizing a news article that describes a psychological study (see rubric for more details)
2. **Assignment 2 – Project Rationale and Hypothesis:** You will write a project rationale (up to 3 pages) outlining the study constructs you will be examining in your survey project along with their hypothesized associations. Additionally, you'll provide a theoretical rationale for these associations (see rubric for more details).
3. **Assignment 3 – Survey Participation:** As part of the class, you'll complete our class survey. Your anonymized data will be provided to members of the class to analyze as part of their final survey papers and may be used in future research (more details provided in lecture and lab). **If you do not wish to participate in the survey, there is an alternative 2-page paper on survey design that you can write instead.**
4. **Assignment 4 – Method Section:** You will write a method section (up to 3 pages) describing the sample, procedures, measures, and analytic strategy for your survey project (see rubric for more details).

For all assignments that involve writing or presenting results, a more detailed assignment sheet and grading rubric is available on D2L. **By carefully**

reviewing and following these rubrics, you can increase your probability of success in the course.

Final Survey Paper. To help you get hands-on experience with the process of engaging in research in psychology from start to finish, you'll be conducting an original survey research project. Don't worry! Several lab sessions are devoted to this larger project and several of the assignments (described above) are the building blocks for this larger assignment. These assignments will allow you to gain and incorporate feedback on these building blocks before you turn in your final survey paper. **Please note: Your final survey paper must be completed independently and should reflect your own, original work.**

This paper will involve writing a full APA-style research paper that describes your survey research project. As part of this paper, you will include a rationale for your study, hypothesis, a method section, a results section, and a discussion that includes an interpretation of your results and the limitations of your study. A detailed rubric is available on D2L so that you know exactly what elements to include in the final project. This final survey paper is worth 25% of your grade.

Twitter poster. You will construct a twitter poster that provides information about the major components of your survey research project. You will not need a twitter account and do not need to post your assignment to twitter to receive credit for this assignment (although I may ask your permission to tweet your poster from my account if it's cool!). Evaluation of the twitter poster will focus on how well it communicates the major components of your project (i.e., rationale, methods, results). Your Twitter poster is worth 5% of your grade.

Lab Attendance. Attendance will be taken during labs and will count for 10% of your grade. **You will receive 5 points per lab that you attend for up to 10 labs during the semester.**

IMPORTANT NOTE: Due to the ongoing coronavirus pandemic, please do not attend lab if you are feeling unwell or have symptoms like a cough or fever! Because there are more than 10 labs during the semester, you can miss a couple labs due to illness without any losing points.

Extra Credit. You may accumulate up to 10 extra credit points by participating in ongoing research in the Psychology department. All such participation will be through the Department of Psychology's SONA program. Here is the link for signing up for studies: <https://msu-psychology.sona-systems.com/>. Make sure you use this link!! The Comm Arts Department also uses SONA and you want to make sure you sign up with Psychology, not them! You will receive a credit for each hour that you spend participating in an experiment.

Each credit you earn is worth 2 extra-credit points in this class, up to a maximum of 10 points (5 SONA credits). **The last day to participate in experiments is**

Friday, December 10, 2021. Details on how to sign up for experiments are posted on the D2L page. For all questions about research participation, please do not contact me. Instead, contact Ms. Audra Jeffrey (jeffre22@msu.edu).

As an alternative to research participation, you may also receive 10 extra credit points by writing a thought paper on the use of psychology subject pools that I have designed for this situation. **If you prefer this option, you must make arrangements with me by Tuesday November 2, 2021, and I will give you the specifics of the paper. If you have not made arrangements by this date, I cannot arrange this alternative for you.**

Finally, there is an opportunity to earn 5-10 points extra credit if your Twitter poster is voted by your lab mates as one of the best in the lab. **Beyond the options noted above, there are no other opportunities for extra credit in the class.**

Honors Option. If you would like to complete an Honors Option for this class, please let me know **no later than Tuesday October 5th, 2021.** The Honors Option in Psychology 395 is an extension to the requirements of the course's final survey paper and involves adding an additional concept (i.e., another variable from one of the scales or questions already included in the class survey) to your study. A detailed sheet describing these options is available on the course D2L site.

Part 3: Course Policies

Classroom Climate

To make the class labs conducive to learning, please make sure to:

1. **Arrive on time to labs.** I know some of the labs are very early in the morning, but arriving on time will make sure you don't miss important information. Please note that attendance will be taken at the beginning of lab and attendance credits will not be given for very late arrivals.
2. **Minimize distracting behaviors.** Turn off your cell phones or other devices that might make noise. Refrain from having side conversations with your classmates. Avoid engaging in other distracting behaviors (e.g., having food delivered, leaving in the middle of class, etc.).
3. **Ask questions.** If you don't understand something, chances are your classmates don't either! Asking questions enriches everyone's learning experience.
4. **Be respectful to others.** This includes your classmates and your TAs!

Late Work Policy

Assignments must be turned into the appropriate folder provided on D2L (under Assessments – Assignments) at the time indicated on the syllabus. **Note: If an assignment is listed as due in lab on the syllabus, it means it is due by the start of your assigned lab section during that week. If an assignment is listed with a specific date/time, it means it is due at that specific date and time. I do not accept**

late assignments unless you have a documented emergency or need for a grief absence.

E-mail Policy

E-mail is the best way to get a hold of both me and your TA. However, please use the following guidelines when e-mailing one of us:

- 1) First, ask yourself this question: "Can this question be answered by looking in the syllabus or looking on the D2L course site?"
- 2) If you can't find the answer on the syllabus or course D2L site, ask yourself whether the question would be better to send me your TA or me. If you have a question about a particular grade on one of your assignments or papers, it is best to email your TA first as they will be able to explain why they gave you the grade that they did.
- 3) Use PSY 395 in the subject line. That makes it clear you are a student in this course asking a question. This also helps to prevent e-mails from going directly to the junk folder.
- 4) Please sign your e-mail with your full name, so we know who you are.
- 5) Check your e-mail regularly! This is particularly important due to the online nature of the course this semester! During the course, we will e-mail you from time to time with announcements and reminders. Please read these e-mails as soon as you receive them, and please check your e-mail regularly.

Academic Honesty

[Article 2.III.B.2](#) of the SRR states: "The student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards." In addition, the Psychology Department adheres to the policies on academic honesty specified in General Student Regulation 1.0, [Protection of Scholarship and Grades](#); the all-University Policy on [Integrity of Scholarship and Grades](#); and [Ordinance 17.00](#), Examinations.

You are expected to develop original work for this course; therefore, unless authorized, you are expected to complete all course assignments, including homework, lab work, quizzes, tests and exams, without assistance from any source (except as specified in the assignment). This also means that you may not submit course work you completed for another course to satisfy the requirements for this course. Also, you are not authorized to use the www.allmsu.com Web site to complete any course work in this course. In addition, plagiarism of written work is forbidden. It includes taking the work of another individual or source and presenting it as your own. This is considered plagiarism even if the source has given you permission to use their work, or the work is in the public domain (e.g., on the web). **Any student who violates these rules will receive a penalty grade, possibly a failing grade on the assignment or in the course and will be reported to the Office of Academic**

Affairs and the Office of Student Affairs. See also:

<https://www.msu.edu/~ombud/academic-integrity/student-faq.html>

Contact me or your TA if you are unsure about the appropriateness of your course work.

Accommodations for Students with Disabilities

Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at rcpd.msu.edu. Once your eligibility for an accommodation has been determined, you will be issued a Verified Individual Services Accommodation ("VISA") form. Please present this form to me at the start of the term and/or **two weeks prior to the accommodation date** (test, project, etc.). Requests received without sufficient lead time will not be honored.

If you require testing accommodations (additional time, etc.) you must contact me and present your VISA at least two weeks before the exam date. This will ensure that I have enough advance notice to make sure I can meet these accommodations.

Academic Assistance

This is a university and you are expected to produce college level work. If you have any trouble with assignments or the material covered in class, please make an appointment to speak with me or your TA as soon as possible. **We'd like to see you succeed in class and can work to help find solutions when you are having difficulties with the course materials!** Please don't wait until the end of the semester to seek help as this is often too late for us to turn things around! A lot is expected of you, but the university wants to help you to produce your best work.

Limits to Confidentiality

Please be aware that class materials are generally considered confidential pursuant to the University's student record policies. However, all University employees, including instructors, cannot maintain confidentiality when it conflicts with their responsibility to report certain issues based on external legal obligations or to protect the health and safety of MSU community members and others. As the instructors, the TAs and I must report the following information to other University offices (including the Office of Inclusion and Department of Police and Public Safety) if you share it with one of us:

- Suspected child abuse/neglect, even if this maltreatment happened when you were a child,
- Allegations of sexual assault or sexual harassment when they involve MSU students, faculty, or staff, and
- Credible threats of harm to oneself or to others.

The Office of Inclusion will reach out to you via a confidential email, to see if you would like to pursue legal action and to provide you with additional university resources. You have the right to choose whether or not you would like to utilize any of these services or even respond to the university's email. If you would like to talk about these events in a more confidential setting you are encouraged to make an appointment with the MSU Counseling Center (<https://counseling.msu.edu>).

Turnitin

Consistent with MSU's efforts to enhance student learning, foster honesty, and maintain integrity in our academic processes, I have chosen to use a tool called Turnitin to compare your papers with multiple sources. The tool will compare each paper you submit to an extensive database of prior publications and papers, providing links to possible matches and a 'similarity score.' The tool does not determine whether plagiarism has occurred or not. Instead, I will make a complete assessment and judge the originality of your work. All submissions to this course may be checked using this tool.

You should submit papers to Turnitin Dropboxes **without identifying information included in the paper** (e.g., name or student number), the Desire 2 Learn system will automatically show this information to me when I view the submission, but the information will not be retained by Turnitin. If you forget and submit your paper with your identifying information on it, it will be retained in the Turnitin repository.

All submissions to this course will be checked using Turnitin. In choosing to use Turnitin in our class, I have agreed to follow five guidelines. They are:

1. I will use Turnitin as part of a balanced approach to encourage academic integrity and foster student success.
2. I will openly disclose use of Turnitin in this course on the syllabus and at the time assignments are announced.
3. For a given assignment, I will use Turnitin for all papers.
4. I will make the final determination of originality and integrity.
5. To ensure privacy, I will ask students to remove identification (e.g., names and student numbers) from submissions.

If you have any questions about the use of Turnitin in this course, please bring them to my attention.

Drops and Adds

The last day to add this course is 9/8/21. The last day to drop this course with a 100 percent refund and no grade reported is 9/27/21. The last day to drop this course with no refund and no grade reported is 10/20/21. You should immediately make a copy of your amended schedule to verify you have added or dropped this course

Part 4: PSY 395 Course Schedule for Fall 2020

Disclaimer: On the following pages you will find a schedule of when we will cover the topics in lecture and lab. However, as the instructor, I reserve the right to adjust this schedule according to the pace of the course and student needs. This also includes making any changes that I deem necessary to the details and/or policies listed in this syllabus. **Check D2L regularly to keep up with the topics and for notices of any changes.**

Week	Course Component	Time	Topic	Readings/ Assignments
Week 1 9/1 – 9/3	Lecture	Asynchronous	Introduction Why Research Methods?	Syllabus Chapter 1
	Lab	NO LAB THIS WEEK		
	Optional Discussion	Synchronous Virtual Thursday 9/2 9:10 – 10:00am	Meet Prof. Neal	
Week 2 9/6 – 9/10	Lecture	Asynchronous	Scientific Reasoning	Chapter 2
	Lab	Mon: No lab; Labor Day Tues-Thurs: In Person	TA Introductions Defining Research	
Week 3 9/13 – 9/17	Lecture	Asynchronous	Research Design	Chapter 4
	Lab	In Person	Consuming Research	Assignment #1 DUE at start of your lab
Week 4 9/20 – 9/24	Midterm Exam	Asynchronous	Midterm Exam #1 (Tuesday 9/21	Study for Exam/No

Week	Course Component	Time	Topic	Readings/ Assignments
			from 12am to 11:59pm Eastern Time)	readings
	Lab	In Person	Formulating Hypotheses	
Week 5 9/27 – 10/1	Lecture	Asynchronous	Measurement	Chapter 5
	Lab	In Person	Plagiarism Writing a Rationale Assignment #2	
Week 6 10/4 – 10/8	Lecture	Asynchronous	Sampling	Chapter 6
	Lab	In Person	Measurement Sampling	
Week 7 10/11 – 10/15	Lecture	Asynchronous	Surveys	Chapter 8
	Lab	In Person	Survey Design	Assignment #2 DUE at start of your lab
Week 8 10/18 – 10/22	Exam	Asynchronous	Midterm Exam #2 (Tuesday 10/19 from 12am to 11:59pm Eastern Time)	
	Lab	In Person	Writing Methods	Assignment #3 due by 11:59pm on Tuesday 10/19/21
	Optional Discussion	Synchronous Virtual Thursday 10/21	Mid-Semester Check-in with Dr. Neal	

Week	Course Component	Time	Topic	Readings/ Assignments
		9:10 – 10:00am		
Week 9 10/25 – 10/29	Lecture	Asynchronous	Experiments	Chapter 7
	Lab	Mon - Tues: No labs, Fall Break Wed-Thurs: In Person	Experiment Demo	
Week 10 11/1 – 11/5	Lecture	Asynchronous	Field Research Descriptive Quantitative Analysis	Chapter 9 Chapter 12 (to top of p. 379)
	Lab	In Person	Stats Workshop (Pt. 1)	
Week 11 11/8 – 11/12	Exam	Asynchronous	Midterm Exam #3 (Tuesday 11/9 from 12am to 11:59pm Eastern Time)	No readings
	Lab	In Person	Stats Workshop (Pt. 2)	Assignment #4 DUE at start of your lab
Week 12 11/15 – 11/19	Lecture	Asynchronous	Inferential Quantitative Analysis	Chapter 12 (from p. 379 to 401)
	Lab	In Person	Stats Workshop (Pt. 3) Writing Results	
Week 13 11/22-11/26	Lecture	Asynchronous	Communicating Results	Chapter 14

Week	Course Component	Time	Topic	Readings/ Assignments
	Lab	Mon & Tues: In Person Wed & Thurs: No lab; Thanksgiving holiday	Open Science Thanksgiving Holiday	
Week 14 11/29 – 12/3	Lecture	Asynchronous	Ethics & Open Science	Chapter 3
	Lab	In Person	Twitter poster workshop/Ethics	Final Survey Project DUE at start of your lab
Week 15 12/6 – 12/10	Exam	Asynchronous	Midterm Exam #4 (Tuesday 12/7 from 12am to 11:59pm Eastern)	No readings
	Lab	In Person	Twitter Posters	Twitter posters DUE at the start of your lab
	Optional Discussion	Synchronous Virtual Thursday 12/9 9:10 – 10:00am	End of Semester Q&A and Final Exam Review with Dr. Neal	
Finals Week 12/13-12/17	Final Exam		Final Exam (Tuesday 12/14 from 12am to 11:59pm Eastern)	No readings