



**Syllabus for PSYC 221-002&003
Research Design & Statistics 1
Department of Psychology
Spring 2023
Mon Mar 13 – Fri May 5**

Instructor: Dr. Maggie Polk
Office: AH 0129
Class Location: Alumni Hall 0302
Lab Location: Alumni Hall 1201

E-mail: marpolk@siue.edu
Office Hours: M/W: 12-1pm/by appointment
Class Meeting time: M/W 10-11:50am
Lab Meeting time: 002 – 8am-10am
003 – 10am-12pm

Graduate Teaching Assistants: Amy Terry **E-mail:** aterra@siue.edu
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Graduate Teaching Assistants: Ananya Alok **E-mail:** aalok@siue.edu
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Note: Office Hours for TAs will be by appointment only. If you would like to schedule a meeting with them, please email them and write whether you would like to meet in person or via zoom.

Course Description: In this course we will explore experimental methods for designing psychological studies and statistics used to analyze and interpret the data. Building off what we done in PSYC 220, by the end of the semester you will learn how to read, understand and critically evaluate statistical data. You will also generate testable hypotheses, design a research study and collect data, and calculate appropriate statistics. Finally, you will also learn to write and present an APA paper. Overall, my goal is to make statistics and research methods less scary, and provide you a foundation for understanding research in the real world.

Course Objectives:

- **Research & Statistic Skills**
 - You will learn the basics and major concepts of descriptive and inferential statistics, and then be able to decipher which type of statistics are used in which scenarios. In addition, you will learn the techniques of the whole research process: conducting a literature review, developing research ideas, deciding which type of method to use, gathering and analyzing data, and communicating results.
- **Writing Skills**
 - You will learn how to write in APA style and improve your writing skills.
- **Critical and Creative Thinking**
 - You will learn how to transform curiosity into testable research questions, and how to critically evaluate these questions.

Textbook:

Gravetter, F. J. & Forzano, L. B. (2018). *Research methods for the behavioral sciences* (6th ed.). Belmont, CA: Cengage. *Note: will be labeled as R.M.*

Gravetter, F. J., Wallnau, L. B., Forzano, L. B., & Witnauer, J. E. (2018). *Essentials of statistics for the behavioral sciences* (10th ed.). Cengage. *Note: will be labeled as Stats*

Undergraduate students can rent textbooks from SIUE. Please visit the [Textbook Service website](#) for more information. For off-campus classes, the textbook may be shipped to you. Look for the option “Off-Campus Classes have special instructions, click here for these.” Note: shipping time may take up to two weeks.

Other course materials

Additional readings may be assigned throughout the semester and will be posted to Blackboard.

Technology

- **Blackboard:** <https://bb.siue.edu>
 - All announcements and communication will be done through Blackboard. In addition, powerpoints, assignments, handouts, and everything will be posted here
- **Zoom:** <https://www.siue.edu/its/zoom/>
 - We use Zoom for online office hours, and/or in the even that we need to do any classes remotely. Use the link above and download the Zoom app (under Tips for Students).
- **SPSS:** This should be installed on the computers in the labs we’ll use, but it can also be really useful to install on your own computer. Here is the link, but be sure to carefully follow the instructions as you only get one chance. You’ll need to download the install file and the document with the license code.
<https://www.siue.edu/its/labsclassrooms/vlab/spss.shtml>
Note: SPSS can be installed on any Mac or Windows computer, but will NOT work on Chromebook laptops.
- **Microsoft Office:** I highly recommend downloading and installing, (*don’t try to use the web version!*). <https://www.siue.edu/its/office365/install.shtml>
- **Qualtrics:** for survey data gathering <https://siue.qualtrics.com/>

Communicating with the instructor:

The most reliable way (and only way) to contact me is via e-mail. I respond to e-mails I receive during the week (M-F, 9-5 p.m.) within 24-48 hours. If you need to speak with me personally, I am easy to find during my office hours in my office. If you are unable to attend office hours due to a scheduling conflict, please contact me for an appointment. Both in the classroom and email, I expect that you will address me as Dr. Polk or Professor Polk.

E-Mail Guidelines:

E-mail is a wonderful tool when used properly. Please follow these simple guidelines when e-mailing me or a TA, so that we can identify which section you are in and address your concern without having to write you back to say “Who are you and what section are you in??” (This happens, *often!*)

1. Include class info in your subject line (PSY 221 Sec XXX). This is where your section number becomes especially important.
2. ALWAYS sign your e-mail. Many of you have e-mail addresses that mask your identity.
3. Please treat your e-mails as professional communications. Please use proper grammar, spelling, and punctuation.

Note: I reserve the right to NOT respond to emails that lack any of these guidelines and/or are questions that can be easily solved on your own.

Communicating with YOU:

I will send out many emails and announcements via Blackboard so it is your responsibility to check your SIUE email regularly, as well as Blackboard announcements.

Course Requirements and Policies

All assignments will be posted in Blackboard. The dates of each assignment can be found on Blackboard and in your course calendar at the end of your syllabus. It is your responsibility to make sure that all assignments are completed and turned in on time. Work turned in after the scheduled date and time is considered late work.

Submitting Work

All assignments will be submitted via Blackboard. No emailed assignments will be accepted. *Do not email me to ask for extensions. This class moves at an extremely fast pace and it is your job to keep up.*

Quizzes: Each week (except for weeks of the midterm and final) you will have a comprehension check quiz on Blackboard. These questions will be multiple choice questions drawn from each chapter we have covered that week. These will be due by **Sunday at 12:00 p.m.** each week. You will have unlimited time to take the quiz (must complete in one sitting) and unlimited attempts. However, each new attempt consists of new questions and your score will be the highest from those attempts that week. These quizzes are open book and note, but do not use the internet or work with others.

Note: To give you more practice problems, the quizzes will include more questions and be worth more points than they did in 220.

Lecture Worksheets: Lectures happen on Monday and Wednesday, and there will be a related worksheet that is due on **Sunday at 12:00pm.** This is my way of taking attendance in this course and content for the worksheet will be taken from lectures. There will be times in the lectures that worksheets will be worked on during class. *Note: Since there is one less week in this course, you will be unable to drop a lecture worksheet. All 6 will count towards your final grade.*

Lab Worksheets: Every Friday there will be lab sessions. Make sure you attend the lab section that you enrolled in. You must attend lab and complete the related worksheet activities by **12:00 p.m. on Sunday.** In order to get access to the lab worksheet, you must be present in class. *Note: Since there is one less week in this course, you will be unable to drop a lab worksheet. All 6 will count towards your final grade.*

Exams: Exams will be taken on blackboard and you will have 1 hour to complete the midterm exam and 2 hours to complete the final exam. Your exams will open on Thursday morning (12:00am) and close on Friday evening (11:59pm). Your exams will be open book and open note, but not open internet. Exams must be taken alone. Exams will consist of factual and conceptual questions, problems and application-based questions. Please note that your final exam will be **Cumulative**.

Group Research Project: For the group project, you will be put into groups of about 4 students in your lab section. You will work with your group to design and conduct a survey study. Your project will be completed in stages with due dates throughout the 8-week course as you create an APA style paper. Drafts will be submitted on Blackboard, which uses Turnitin to detect plagiarism. As a group, you will turn one final presentation together. Everyone in the group will receive the same score for that. However, for all of the different drafts and sections (literature review, method section, results section, and final paper), you will write individually and receive your own individual score. Your grade will be based on each draft, the presentation, the final paper and peer evaluation. There are more specific breakdowns and guidelines located in the group project folder on Blackboard.

Course Policies

While using your laptops in class is allowed, please refrain from being on non-class related websites (e.g., Facebook, Twitter, Texting, Google chat, Amazon, etc.). Also, please take out headphones and earphones when in class. Phones should never be used in class. Such behaviors may result in me asking you to leave the classroom and will negatively affect your grade.

Course Questions

It is natural for everyone to have questions and I want you to feel comfortable asking questions. That said, in some cases, students ask questions that could be easily answered by looking in the syllabus or course materials. In order to facilitate personal responsibility, I ask that you follow the “rule of 3 then me” before asking a question. If your question is about the course requirements or some aspect of the course check in 3 places for the answer before you ask me. When you ask me, tell me where you have looked for the answer and explain your question. This helps me understand the question so I can give you a better answer. If you do have a question, you can send me an email.

Academic integrity/plagiarism

Plagiarism is the use of another person’s words or ideas without crediting that person. Plagiarism and cheating will not be tolerated and may lead to failure on an assignment, in the class, or dismissal from the University, per the SIUE academic dishonesty policy. Students are responsible for complying with University policies about academic honesty as stated in the University’s Student Academic Conduct Code.

Turnitin

This course will utilize the Turnitin plagiarism detection software for your final paper. Find out more about using Turnitin.

Grading

<u>Assignment</u>	<u>Point Breakdown</u>
Quizzes (6)	150
Lecture Worksheet (6)	60
Lab Worksheet (6)	60
Midterm Exam	80
Survey Project	200
Final Exam	150
Total	700

A letter grade of A, B, C, etc. will be assigned based on the following scale:

A = 90% or better (626 points or higher); B = 80-89% (556 points or higher); C = 70-79% (486 points or higher); D = 60-69% (416 points or higher); F = anything lower than 59% (415 points or lower).

Final grades are not negotiable. If you are upset about a grade on an assignment, you need to set up a meeting with me to discuss that within a week of the published grade of the assignment. After that, I will not consider a grade dispute. ***I especially do not respond to end-of-semester e-mails that request unearned grade bumps.***

Department of Psychology Writing Policy

As a student in this course, you will be expected to display university-level writing, which includes completing course assignments that meet the following basic writing criteria. Specifically, all written assignments completed for this course should include:

- clear transitions from sentence to sentence and idea to idea (e.g., paper is organized/flows well);
- verb tense consistency;
- clear and unambiguous sentences and ideas;
- writing that is free of typos, spelling errors, and major grammatical errors;
- properly formatted paper including headings, citations and references, per the 7th edition of the APA manual.

This is by no means an exhaustive list of basic writing skills, but will give you an idea of what we are looking for in our papers. If you feel you need help with your writing, you are encouraged to seek assistance from the writing center on campus (<http://www.siu.edu/is/writing>) or utilize one of the many online resources they have identified to help students (<http://www.siu.edu/lss/writing/resources.shtml>).

If your graded written assignments fail to meet the basic writing requirements listed above (and any others found to be appropriate by your instructor), the instructor will stop the grading process and return the paper to you (see below for the specific policy for this class).

- **The penalty for unacceptable writing in this class is as follows: If more than three writing errors are found on any one page of a written assignment, grading will cease, and the student's paper will be returned with a grade equal to 50% of the total point value for the assignment.**

Late or Missed Assignments

Any **written assignment** must be completed and submitted via Blackboard by their assigned time. **NO LATE WORK WILL BE ACCEPTED. Students are responsible for anticipating that technology can often fail and should be in communication with the instructor if necessary, PRIOR to the deadline.** Any assignments turned in via email past the time they are due will be considered late and not accepted. You are encouraged to confirm that your assignment has been received via blackboard.

University Policies

Services for Students Needing Accommodations

Students needing accommodations because of medical diagnosis or major life impairment will need to register with Accessible Campus Community & Equitable Student Support (ACCESS) and complete an intake process before accommodations will be given. Students who believe they have a diagnosis, but do not have documentation, should contact ACCESS for assistance and/or appropriate referral. The ACCESS office is located in the Student Success Center, Room 1203. You can also reach the office by emailing us at myaccess@siue.edu or by calling 618-650-3726. If you feel you would need additional help in the event of an emergency situation, please notify your instructor to be shown the evacuation route and discuss specific needs for assistance. ***It is your responsibility to communicate with me ahead of time of what accommodations you need. Just sending me an ACCESS letter is not sufficient, you have to communicate it with me.***

Diversity and Inclusion

SIUE is committed to respecting everyone's dignity at all times. In order to learn, exchange ideas, and support one another, our virtual and physical classrooms must be places where students and teachers feel safe and supported. Systems of oppression permeate our institutions and our classrooms. All students and faculty have the responsibility to co-create a classroom that affirms inclusion, equity, and social justice, where racism, sexism, classism, ableism, heterosexism, xenophobia, and other social pathologies are not tolerated. Violations of this policy will be enforced in line with the SIUE Student Conduct Code.

The Center for Student Diversity & Inclusion <https://www.siue.edu/csdi> is an excellent resource for students for support and community. Any person who believes they have experienced or witnessed discrimination or harassment can contact Ms. Jamie Ball, Director in the Office of Equal Opportunity, Access and Title IX Coordination at (618) 650-2333 or jball@siue.edu. There is also an online form for reporting bias incidents at https://cm.maxient.com/reportingform.php?SIUEdwardsville&layout_id=10.

Additional Support

Academic and Other Student Services

As an enrolled SIUE student, you have a variety of support available to you, including:

- [Lovejoy Library Resources](#)
- [The Writing Center](#)
- [Academic Advising](#)
- [Campus Events](#)
- [Counseling Services](#)

If you find that you need additional support, please reach out to me and let me know.

Cougar Care

Dealing with the fast-paced life of a college student can be challenging, and I always support a student's decisions to prioritize mental health. Students have access to counseling services on campus (Student Success Center, 0222). Make an appointment by visiting cougarcare.siu.edu or by calling 618-650-2842.

COVID-19 Pandemic Policies Related to Classroom Instruction (Fall 2022)

Health and Safety

The measures outlined below are required and any student who does not comply may be in violation of the *COVID-19 People-Focused Health and Safety Policy*, as well as the University's *Student Code of Conduct*.

The full text of the *COVID-19 People-Focused Health and Safety Policy* can be found here: <https://www.siu.edu/policies/Covid.shtml>

Classrooms, Labs, Studios, and Other Academic Spaces

Under current University policy, SIUE will only require masking in campus healthcare settings. See, <https://www.siu.edu/about/announcements/coronavirus/safety-guidelines-support/index.shtml>.

Individual faculty of record may determine that masking will be required in their classrooms and are asked to communicate accordingly with students. Face masks may be required in other campus sites following guidance from governing regulatory agencies.

- Students who forget to wear a face covering when masking is required will be reminded of their obligation to comply with SIUE's *COVID-19 People-Focused Health and Safety Policy* and temporarily asked to leave the class until they are able to conform to the policy. Students who forget or lose their face coverings when masking is required may be able to obtain replacements from a friend, a faculty member, or a nearby departmental office. Face coverings are also available for purchase in the Cougar Store (MUC).
- Students who refuse to wear a face covering when masking is required will be asked to leave the classroom and referred to the Dean of Students for non-compliance with community health and safety protocols. Repeated non-compliance may result in disciplinary actions, including the student being administratively dropped from an on-

ground/face-to-face course or courses without refund if no alternative course format is available.

- If a student has a documented health condition which makes wearing a face covering medically intolerable, that student should contact ACCESS to explore options with the understanding that ACCESS will not grant accommodations which excuse the need for a face covering while on campus or in the classroom. ACCESS will work with qualifying individuals to find reasonable alternatives, whenever such solutions are available. Please call or contact the ACCESS Office via email to schedule an online appointment to discuss potential alternatives. ACCESS office (Student Success Center, Room 1203, 618-650-3726, and myaccess@siue.edu).

General Health Measures

Students and employees are expected to review the [siue.edu/coronavirus](https://www.siue.edu/coronavirus) website (<https://www.siue.edu/about/announcements/coronavirus/>) to better understand prevention strategies and safety expectations.

- Students and employees are expected to maintain healthy hygiene practices.
- Students and employees are expected to follow COVID-related guidelines and directions.
- Students and employees are expected to conduct a daily health self-assessment and isolate themselves if COVID-related symptoms are present. COVID-related symptoms include:
 - o Fever (100.4 degrees or above) or chills
 - o Cough
 - o Shortness of breath or difficulty breathing
 - o Fatigue
 - o Muscle or body aches
 - o Headache
 - o New loss of taste or smell
 - o Sore throat
 - o Congestion or runny nose
 - o Nausea or vomiting
 - o Diarrhea

Academic Integrity

Students are reminded that the expectations and academic standards outlined in the Student Academic Code (3C2) apply to all courses, field experiences and educational experiences at the University, regardless of modality or location. The full text of the policy can be found here: <https://www.siue.edu/policies/3c2.shtml>.

Recordings of Class Content

Faculty recordings of lectures and/or other course materials are meant to facilitate student learning and to help facilitate a student catching up who has missed class due to illness or quarantine. As such, students are reminded that the recording, as well as replicating or sharing of

any course content and/or course materials without the express permission of the instructor of record, is not permitted, and may be considered a violation of the University's Student Conduct Code (3C1), linked here: <https://www.siue.edu/policies/3c1.shtml>.

Potential for Changes in Course Schedule or Modality

As the COVID-19 pandemic continues, there remains a possibility that planned classroom activities will need to be adjusted. Depending on circumstances and following state-issued recommendations, potential changes include alterations to distancing requirements, course modality (e.g., transition from face-to-face to online, hybrid, or hy-flex, mask wearing, in-course activities, etc). These changes would be implemented to ensure the successful completion of the course while preserving health and safety. In these cases, students may be provided with an addendum to the class syllabus that will supersede the original version. If the course schedule or modifications significantly alter expectations, a new syllabus will be issued.

Course Calendar: Note: All assignments will be due on their assigned date through Blackboard.

Date	Topic	Reading	Assignments Due by 12:00p.m. on Sunday
Mon Mar 13	Syllabus Updates, 220 Review, 221 Preview		
Wed Mar 15	Sampling Distribution	Stats Ch. 7	
<i>Fri Mar 17 - Lab</i>	<i>Group Project Selection Lit Review</i>		<i>Lab worksheet, Lecture worksheet (covers Review & ch. 7), Quiz (only covers Stats Ch. 7)</i>
Mon Mar 20	Hypothesis Testing	Stats Ch. 8	
Wed Mar 22	Hypothesis Testing	Stats Ch. 8	
<i>Fri Mar 24 - Lab</i>	<i>SPSS Review worksheet</i>		<i>Lab worksheet, quiz, Note: No lecture worksheet will due because it will be combined with next week wis.</i>
Mon Mar 27	T-Test	Stats Ch. 9	
Wed Mar 29	Experimental Research Design	R.M. Ch. 6,7	
<i>Fri Mar 31 - Lab</i>	<i>Experimental Design Worksheet</i>		<i>Lab worksheet, lecture worksheet, Midterm Exam opens March 30 (12am) and closes March 31 (11:59p.m.)</i>
Mon Apr 3 <i>*Asynchronous</i>	Between Subjects Design	R.M. Ch. 8 <i>class video</i>	
Wed Apr 5 <i>*Asynchronous</i>	Between Subjects T-test	Stats Ch. 9 <i>class video</i>	
<i>Fri Apr 7 – Lab NO MEETING</i>	<i>Note: There will not be a formal lab meeting this week. You will be given APA writing guide assignments to complete that will count as lab worksheets.</i>		<i>Lab worksheet (APA guides), lecture worksheet, quiz, Draft #1 – Lit Review</i>
Mon Apr 10	Within Subjects Design	R.M. Ch. 9	
Wed Apr 12	Within Subjects T-test (Paired Samples T-test)	Stats Ch. 11	
<i>Fri Apr 14 - Lab</i>	<i>SPSS Between & Within Worksheet</i>		<i>Lab worksheet, lecture worksheet, quiz, Draft #2 (+ method)</i>
Mon Apr 17	ANOVA	Stats Ch. 12	
Wed Apr 19	Post Hoc Testing	Stats Ch. 12	
<i>Fri Apr 21 - Lab</i>	<i>Project Data Results</i>		<i>Lab worksheet, lecture worksheet, quiz, Draft #3 (+ results)</i>
Mon Apr 24	Quasi-Experimental	R.M. Ch. 10	
Wed Apr 26	Factorial ANOVA	R.M. Ch. 11	
<i>Fri Apr 28 - Lab</i>	<i>Final project presentations Turn in Peer Eval</i>		<i>Lecture worksheet, quiz, Group Presentation *Final Paper due at 11:59pm on 4/28</i>
<i>Finals Week</i>	<i>Final Exam – Opens Monday (5/1) at 12am and closes Wednesday (5/3) at 11:59p.m.</i>		

Subject to change notice: All material, assignments, and deadlines are subject to change with prior notice. It is your responsibility to stay in touch with your instructor, review the course site regularly, or communicate with other students, to adjust as needed if assignments or due dates change.