

PSYC 300: Statistics in Psychology – Lab Sections 201 and 202 Fall 2022

Instructor: Lida Ponce

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Office Hours: Tuesday 3:00 – 4:00 PM or by appointment

Office: Zoom – <https://gmu.zoom.us/j/8684958278?pwd=TWIGd2JCKzR0Rkh0UGVhQnNCSklyUT09>

Lab Location & Time: Innovation Hall 317

Section 201: Thursday 12:30 – 2:20 pm

Section 202: Thursday 2:30 – 4:20 pm

Required Text: Salkind, N. J. & Frey, B. B. (2019). *Statistics for People Who (Think They) Hate Statistics* (7th edition). Thousand Oaks, CA: Sage Publications. ISBN: 9781544381855

Tentative Course Schedule:

Students are responsible for being aware of any changes in this schedule announced in class, lab, or over email.

Week	Date	Lab topics/Activities
1	8/25	Course Overview and Introductions; Introduction to Jamovi
2	9/1	Measures of Central Tendency (Descriptive Statistics)
3	9/8	Measures of Variability and Graphing
4	9/15	Reliability & Validity (Correlations)
5	9/22	NO LAB (Exam Week)
6	9/29	Hypothesis Testing & Z Scores
7	10/6	Z-tests & One-Sample t-tests (Single Sample t-tests)
8	10/13	T-tests (Independent & Dependent Samples t-test)
9	10/20	NO LAB (Exam Week)
10	10/27	Working with Data (Recoding, Subgroup)
11	11/3	Analysis of Variance & Factorial Analysis of Variance (ANOVA)
12	11/10	NO LAB (Exam Week)
13	11/24	Linear Regression
14	12/1	NO LAB – THANKSGIVING BREAK
15	12/8	Power Analysis

Course Description: We will cover many of the basic descriptive and inferential statistics that are used in the field of psychology. This is a 4-credit course, which includes both a lecture section and a lab section. During the lecture sessions, Dr. Stuewig will cover the topics listed on the syllabus and take you step-by-step through statistical analyses. During your lab sessions, we will review and practice the topic(s) from that week's lectures; you will also get hands-on experience using a computer program (Jamovi) to analyze data.

Learning Outcomes

By the end of this course, students should be able to:

- Identify and apply appropriate statistical procedures (e.g. descriptive versus inferential) for simple research designs.
- Analyze data using statistical software (i.e. Jamovi).
- Communicate statistical findings using APA guidelines.

Lab assignments & participation: In addition to the exams, pop quizzes, and research participation (see Dr. Stuewig's course syllabus), the lab portion of this course accounts for **25%** of your final grade. This lab course will consist of **11** assignments, with each assignment being worth **10** points. The lowest score will be dropped at the end of the semester. Each lab will begin with an overview of the topic for the day, followed by instructions for completing the lab assignment. Lab assignments will be completed during lab time.

Grade Breakdown				
A+ (97-100%)	B+ (87-89%)	C+ (77-79%)	D+ (67-69%)	F (< 60%)
A (93-96%)	B (83-86%)	C (73-76%)	D (63-66%)	
A- (90-92%)	B- (80-82%)	C- (70-72%)	D- (60-62%)	

General Policies

Grading: In terms of grading, it is important that you show ALL work to receive full credit. The more work you show, the better chance we can help when something goes wrong.

Attendance & Late Assignments: Coming to lab is important. Material will be presented in lab that is not covered in the book and you will be held responsible for that information. You may also miss announcements about scheduling changes and extra credit opportunities. **You are responsible for all announcements made in lab regardless of whether or not you attend.** I encourage you to complete that week's assignment **in lab before leaving that day**. However, the lab assignment is due **Sunday by 11:59 pm (see blackboard for due dates)**. I'm happy to help you with your assignments during my office hours and will do my best to be available by appointment or over email if my office hours are not convenient for you. However, your best bet to get guidance is to complete the assignment in lab. I reserve the right to change this policy (i.e. make the daily assignment due *in lab* the day it is assigned) if needed. You may submit assignments up to **5** days late, but an additional **10%** of the grade will be deducted with each day it is late.

Late Arrival Policy: Since we will discuss the examples necessary to complete assignments during the beginning of lab, it is very important to be present at the start of class. Non-penalty extensions will be considered in the case of a family or medical emergency. Please provide documentation (e.g., doctor's note) in this event.

COVID-19: If you have to miss a lab due to COVID-19 (symptoms, positive test, or confirmed exposure), please let me know as soon as possible. Obviously, I do not want anybody to come to lab at the risk of endangering their own health or that of their classmates. Ideally, this missed lab will be your dropped grade of the semester (see "Lab assignments and participation" section above). *If* you have already used your dropped grade for another reason, we will work together so that you can make up the assignment that you missed in lab. This will likely mean completing it on your own (see "Technology" section for how to access SPSS from your own computer). Of course, please feel free to attend my office hours so that I can help out.

Academic Integrity: Academic integrity refers to honest and ethical behavior in all aspects of academic activity. This includes: not cheating on exams or homework assignments (e.g., copying the work of others), not passing off someone else's ideas as your own (plagiarism), not engaging in dishonesty of any kind with regard to your class participation and assignments.

Plagiarism: Plagiarism is the *unacknowledged* use of another person's labor, another person's ideas, another person's words, or another person's assistance. Unless otherwise stated in class, all work done for courses is expected to be the individual effort of the student presenting the work. Any assistance must be reported to the instructor. If the work has entailed consulting other resources -- journals, books, or other media -- these resources must be cited in a manner appropriate to the course. Everything used from other sources -- suggestions for organization of ideas, ideas themselves, or actual language -- must be cited. Failure to cite borrowed material constitutes plagiarism. Undocumented use of materials from the World Wide Web is plagiarism. If you are caught plagiarizing or cheating, you will fail the assignment, and, depending upon the severity of the violation, you may fail the class.

Honor Code: George Mason University has an Honor Code, which requires all members of this community to maintain the highest standards of academic honesty and integrity. Cheating, plagiarism, lying, and stealing are all prohibited. All violations of the Honor Code will be reported to the Honor Committee. See honorcode.gmu.edu for detailed information.

Classroom Needs: If you have any specific needs (e.g., related to vision, hearing, learning, or medical conditions) or any religious or cultural practices, please let me know by the second week of class so that I can make the appropriate arrangements. Disabilities must be documented by the Disability Resources Center (703-993-2474) for reasonable accommodations to be provided.

Technology: The desktop computers in Innovation Hall will be used during lab for statistical analysis using Jamovi software. If you would like access to Jamovi at home, please download Jamovi here <https://www.jamovi.org/download.html>. Assignments will be handed out in class or uploaded on Blackboard. Please check Blackboard regularly. Regarding electronic devices (such as laptops, cell phones, etc.), please be respectful of your peers and your instructor, and do not engage in activities that are unrelated to class. Such disruptions show a lack of professionalism and may affect your grade. Students must follow the university policy for [Responsible Use of Computing](#).

Enrollment: Students are responsible for verifying their enrollment in this class. Schedule adjustments should be made by the deadlines published in the Schedule of Classes (available from the Registrar's Website: registrar.gmu.edu).

- Last day to add classes: August 29, 2022
- Last day to drop classes with no tuition penalty: September 6, 2022
- Last day to drop classes with 50% tuition penalty: September 7 - 13, 2022
- Final drop deadline: September 14 - 27, 2022

After the last day to drop a class, withdrawing from this class requires the approval of the dean and is only allowed for nonacademic reasons. Undergraduate students may choose to exercise a selective withdrawal. See the Schedule of Classes for selective withdrawal procedures.

I am looking forward to working with all of you! Please feel free to email me or attend my office hours. I am here as a resource to help you with the work in this lab and in the class over all. I genuinely love statistics and see the importance of it, and want to help you all learn as much as you can.