Psych 101 | Research & Data Analysis | Summer 2021

Lecture | asynchronous - Lectures Uploaded **Lecturer |** Amanda D. Perez, PhD. (adp@berkeley.edu)

Office Hours | ZOOM, by appointment with Prof. Perez. Your specific GSI will let you know their office hour policies.

Readings | There is no required textbook for this course. Required readings are all open-source and the links are posted within the weekly modules on bcourses.

Course Description | The course will concentrate on hypothesis formulation and testing, tests of significance, simple correlation, simple regression, and multiple regression. Majors intending to be in the honors program must complete 101 by the end of their junior year.

Contact/Questions/Discussions | To ask questions, we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, your GSIs, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. You can also post "privately" where only I will see your question. If you have any problems or feedback for the developers, email team@piazza.com.
Find our class on bcourses OR at the signup link: https://www.piazza.com/berkeley/summer2021/supsych101lec001

Course Outline | This class moves fast; please be mindful of the following deadlines; changes will be announced in class and online.

Course at a Glance

1 | Hello R & Introduction to Research Methods
2 | Exploring Data
3 | Exploring Data
4 | Final Project Introduction
5 | Data Science Ethics
6 | Making Rigorous Conclusions
7 | Looking Forward
8 | Final Week + Exam + Final Project

Letter grades will be based on rounded cutoffs :

A+ is > 96.5	B+ is > 86.5	C + is > 76.5	D is > 59.5
A is > 92.5	B is > 82.5	C is > 72.5	F is < 59
A- is > 89.5	B- is > 79.5	C- is > 69.5	***note : an 89.499999 is a B+***

Course Structure:

This course is taught asynchronously. Instead of having two live lectures a week (6 hours total) I will be posting shorter and more focused topic videos on bcourses modules. All of the course content will be organized through these modules (assignments, readings, labs, etc.). To keep the pace of the course I will be releasing the new content on a weekly basis. At the latest, the new weekly content will be posted on Mondays. It is encouraged that you watch at least 2 hours of videos before attending your discussion section. I do encourage you to stay on track and watch all lecture videos for the week prior to attending discussion if possible. For each video and reading you will submit a reflection assignment to ensure you watched the videos and completed the readings. **Reflection Assignments are due 11:59PM the Sunday before the next week starts.**

Summary of Graded Course Components :

Lecture Video & Reading Reflections : For each video and reading you will submit a reflection assignment to ensure you watched the videos and completed the readings. **Reflection Assignments are due 11:59PM the Sunday before the next week starts.** The expectation is not to turn in a long assignment. Several sentences showing your understanding of the material will suffice.

Discussion Section Attendance/Participation : Review material, work on lab assignments, and ask questions to your friendly GSI. Students may miss one discussion section without penalty. You must attend the discussion section for which you are registered. **All discussion sections are going to be held virtually via zoom.** Discussion attendance/participation is mandatory. As long as you come to discussion, stay, and partake in any activities you will receive full marks for this. **If, for some reason, you cannot attend discussion on a regular basis it is your responsibility to let your GSI know before the end of the first week.** We will make exceptions for situations such as timezones, overlapping courses, etc. If this is the case then you will have to complete an additional reflection assignment each week to make up for attendance/participation.

R Lab Assignments : Each week (with the exception of week 4 and 8), you will complete a lab assignment designed to help you apply statistical concepts to real life research questions, and use R to analyze different kinds of data. You'll work on these at home and in your discussion sections. These are graded for completion, accuracy, and effort. **Late lab assignments will not be accepted** - make sure to submit your assignment with plenty of time needed to account for the inevitable computer or internet connectivity issues.

Final Project (Research Paper): Students will find a publically available dataset from Tidy Tuesday, develop research questions and an analysis plan, and will write up the results as if for publication. There are several milestones for this assignment due throughout the semester. We will talk in detail about this project during week 4.

Final Exam : The final (and only) exam will be during week 8 of the semester. This will be a “take home” R Exam that you will have several days to work on. You must work alone, but may use any resource available to you (including the Internet).

Extra Credit : There will be NO extra credit offered in this course, even for students who ask kindly. This means it is extra important to watch lectures, complete all assignments and check-ins, and do your best on the project and exam.

Course Policies :

Late Work and Make-Ups. Late work for lab assignments will not be accepted. It is your responsibility to stay on top of assignments, and submit work with enough time needed to account for computer or internet issues.

Regrades. Students may ask for a re-grade on exams, assignments, and papers if they believe they lost points for something they should have earned. To request a regrade, talk to your GSI in office hours or set up a meeting. In the case that you and your GSI cannot resolve the regrade issue, the professor will step in and regrade the exam. When requesting a regrade, you consent to have your score *increased or decreased* if we find that you earned points you should not have earned.

Student Contact. It is your responsibility to regularly check e-mail for announcements. Before you contact me with questions, I ask that you demonstrate that you (a) have searched the syllabus and / or Google for the answer to your question and (b) contacted your GSI about your question. (If you do not follow these steps I will remind you to do so.) I am always happy to answer any questions in office hours (either during the scheduled time or online by appointment), or before, during, or after the lecture.

Incompletes. I will only grant an incomplete to students who (1) have a significant life event that prevents them from completing the final paper or final exam at the end of the semester and (2) are passing the class at the point they request the incomplete.

Academic Integrity. Do NOT cheat. Do NOT plagiarize. To copy text or ideas from another source (including your own submitted coursework) without appropriate reference is plagiarism. You may work on lab assignments with other students, but should be able to understand what you are doing. You may not work with other students on the R exam. Anyone caught cheating or plagiarizing will receive a zero on the assignment or test, and will be reported to the Office of Student Conduct. It is your responsibility to read the official Student Conduct Policy for more information about campus standards and policies regarding Academic Integrity.

Respect for Others. I expect that you treat others with respect in this course - both in lecture and online. This also means you should limit distractions in the classroom by showing up on time, listening while others are speaking, keeping your computer on your notes and / or R code, and try to limit access to your mobile devices. Please read the Student Conduct Policy for more information on how the University defines respect, and potential consequences for violating the policy. This is a large class - if you encounter a behavior (either online or in real-life) that makes you uncomfortable or violates the Student Conduct Policy, feel free to reach out to me or your GSI directly and we'll do our best to resolve the issue. If I feel like you are not contributing to a conducive learning environment, I will ask you to leave.

Strategies for success. Do your readings, complete assignments on time, understand how the topics and information relate to what you've learned (and are learning), and if you don't understand something, please ask the question!

Most important. Please let me know as soon as there is anything going on in your life that you think may affect your ability to do as well as you would like in this class (e.g. sickness, working a lot, small children at home, threats to immigration status, etc.), and I will do my best to work with you on a plan to succeed in the class. If you're not comfortable talking to me directly, you can talk to your GSI who can talk to me about your issue.

Student Support Services. UC Berkeley offers a variety of services to help support students facing

Students with Disabilities : Students who require support or adaptive equipment because of a specific disability -- or would like to be tested to see if they qualify for a learning, auditory, or visual disability -- can request these services through the Disabled Students Program (DSP) office. Please note that I can only provide accommodations authorized by the DSP office. If you have DSP status, make sure you submit your letter and feel free to talk to me or a GSI about any specific accommodations you need, or other ways we might be able to make the class more accessible. [260 César E. Chávez Student Center| 510-642-0518 | https://dsp.berkeley.edu/]

Students with Mental Health Issues : If you feel a mental health issue (e.g., depression, anxiety) is negatively impacting your ability to succeed, I'd highly encourage you to seek out experts who can help. Berkeley has several free, confidential, and science-based programs designed to help students. [https://uhs.berkeley.edu/caps | Tang Center 3rd Floor | 510-642-9494 | After hours support line : 855-817-5667]

Undocumented Students : I believe that all people deserve access to education. The UC Berkeley Undocumented Student Program has organized resources to support undocumented students, protect their rights, and offer potential financial aid | https://undocu.berkeley.edu/

Students from Low-Income Backgrounds : The Extended Opportunity Program (EOP) provides college support services for low-income students. Services include additional counseling, financial assistance (study-time parent grants, work-study assignments, and book vouchers), child-care opportunities, and assistance transferring to four-year colleges. [119 César E. Chavez Student Center | 510-642-7224 | https://eop.berkeley.edu/]

Additional Course Resources. Some students feel that they need additional support in this class. If you find yourself struggling, please seek these resources as soon as possible. The Student Learning Center is providing virtual help via zoom.

Final Project Help : The library can help you find research articles for your final project.