PSYC 802: Multivariatend MultivariableStatistics Winter 205

CourseInstructor: Jill A. Jacobson, Ph.D.

Email: jill.jacobson@queensu.ca

StudenHours After class/labsand by appointment.

I have a few times I know in advance that I'll be available each week that you can sign up for without having to email me first. Just click on "Sample Service" at the link below to schedule a meeting.

o https://jill-jacobson.setmore.com

If none of those times work, you don't need to send a separate email asking if we can meet. The answ is always yes. Just send me some days/times when you are free (including any evening or weekend till if you are open to meeting outside of typical besignhours), and I will set up a meeting for a mutually agreeable time.

Teaching AssistantLily Martin Email: lwm3@queensu.ca

Course Materials

Copyright of Course Material

Course materials created by the course instructor, Jill A. Jacobson, including all slides, presentations, handouts, tests, exams, and other similar course materials, are the intellectual property of the instructor. It a departure from academic integridydistribute, publicly post, sell, or otherwise disseminate an instructor's course materials or to provide an instructor's course materials to anyone else for distribution, posting, sale, or other means of dissemination, without the instructor's express consent. A student who engages in such conduct may be subject to penalty for a departure from academic integrity and may also face adverse legal consequences for infringement of intellectual property rights.

Required

Flora, D. B. (2018)Statistical Methods for the Social & 912 0 612 792 re W* n BT /F2 12 Tf 1 0 0 1 49.5

efficiently provide clarification and assist you with coding problems, etc. in person than via Yeomailinal lab assignment mark will be based on the best 9 out of 10 assignment with must complete at least 9 assignments to pass this course (i.e., if you do not, you will receive a failing mark for the class regardless of your performance on the other components of the course). The weekly lab assignment by a tep to the period.

Final Project. You must complete the final project to pass this course (i.e., if you do not, you will receive a failing mark for the class regardless of your performance on the other components of the course). The final project will primarily involve conducting analyses that you learned in PSYC 802 and writing up a briefer version of an APAstyle paper. Because learning is enhanced when an activity is relevant, you will need to us multivariate and/or multivariableatathat you, your advisor, or your lab already has colleated that are appropriate for one of the statistical techniques covered in this course. If you do not have the necessary data want to use data available in R or online, please contact me for appearant Tuesday, Aril 8th (i.e., 2 weeks before the final project is dua)nd provide the link to the data in your projectwrite up. You cannot use open data for which the code necessary for the final project is available alsa leal can assist you in finding data if you do not have access to a finye final project must be submitted in electronic form

Statement of Academic Integrity

All written assignments in this course including the exam must be originally and individually wr If you are uncertain about what constitutes plagiarisms preview Queen's Graduate School policy on academic integrity atttps://www.queensu.ca/academicelendar/graduatstudies/academicetegrity-policy/.

Generative Artificial Intelligence (AI) Tools

Students must submit their own work and citewhook that is not theirs Generative AI writing tools such as ChatGPT are only permissible when explicitly noted in the assignment instructions. In these cases, be sur cite the material that they generate. Any other use constitutes a Departure from Actantegrity.

Student Code of Conduct

As a Queen's student, you are bound by the Student Code of Conduct available for review at https://www.queensu.ca/secretariat/sites/uslcwww/files/uploaded_files/policies/board/StudentCodeOfConduc df. The codes the foundation for the university's nacademic misconduct (NAM) system/hich provides a process for identifying and addressing misconduct within the Queen's community, encouraging informal resolution of grievances while taking into account the wellng of each student and the safety and the community.

Turnitin Statement

This course makes use of Turnitin, a thiral ty application that helps maintain standards of excellence in academic integrity. Normally, students will be required to submit their course assignments through onQ to Turnitin. In doing so, students' work will be included as source documents in the Turnitin reference database, where they will be used solely for the purpose of detecting plagiarized text in this course. Data from submissions is also collected and analyzed by Turnitin for detecting Artificial detece (AI)-generated text These results are not reported to your instructor at this time but could be in the future.

Turnitin is a suite of tools that provide instructors with information about the authenticity of submitted work and facilitates the process of grading. The similarity report generated after an assignment file is submitted produces a similarity score for assignment. A similarity score is the percentage of writing that is similar to content found on the internet or the Turnitin extensive database of content. Turnitin does not determine if an instance of plagiarism has occurred. Instead, it gives interput information they need to determine the authenticity of work as a part of a larger process.

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Evaluation

You are responsible for all lecture and laboratory material and all corresponding material on onQ. You must complete 9 of the 10 lab assignments, write the final exam, and complete the final project to pass this course. You also are expected to adhetbetondicated due datese the "Assignment Submission Policy below for more details including the late policy xams and assignments due in other courses will not be sufficient grounds for excusal, and the PSYC 802 exam and assignment dates will not be changed to accommodate conflicts with your other courses' schedules. No extra credit opportunities will be offered.

PSYC 802Course Outline Winter 2502

Week	Date	Topics	Reading*
1	January7	Introduction and Review of Statistical Foundations	Flora 1
	January8	Simple Regression	
	January10	R Review	
2	January14	Multiple Regression with Continuous Predictors	Flora 2
	January 5	Regression Diagnostics and Polynon Regression	
	January17	Lab 1: Multiple regression with continuous predictors	
3	January21	Multiple Regression with Categorical Predictors	Flora 3
	January 2	ANCOVA and Regression Power Analysis	
	January24	Lab 2: Multiple regressionwith categorical predictors	
4	January28	Moderated Regression	Flora 4
	January 29	Moderated Regression R	
	January 31	Lab 3: Moderated regression	
5	February4	Logistic Regression	
	February5	Logistic Sion in R	
	February7	Lab 4: Logistic regression	
6	February11	Simple Mediation	Flora 5(up to p. 158)
	February 2	Simple Mediation in R	
	February 4	Lab 5: Mediation	
Reading Week			

7 February 3 Multiple Mediators

Flora 9(pp.