

Introduction to Data Analysis Laboratory (Fall 2017)

PSYC-2101L – All Sections 071L-075L

Instructor: TBA
Office: TBA
Phone: TBA
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Office hours: TBA

TEXTBOOK:

Pagano, R. E. (2013). *Understanding statistics in the behavioral sciences* (10th ed.). Belmont, CA: Thomson Wadsworth.

OBJECTIVES:

The main objective of the lab is to develop your understanding of the basic statistical principles and procedures for the analysis of psychological data. The labs will accomplish this through summary lectures, demonstrations, and problem solving. A secondary objective is to introduce you to the use of computers and statistical software for data analysis.

Mastering the tasks in the lab will provide you with a solid foundation to approach the more advanced data analysis and research methods courses offered in the department.

LAB REQUIREMENTS:

You will be given a laboratory assignment in most lab meetings. These lab assignments will involve solving data analysis problems by hand and using SPSS, and will contribute towards your final grade in the course. Please see the course outline for the weighting of these assignments toward your final grade in the course.

You will have one week to complete each lab assignment. Note that late assignments are subject to penalties and these penalties are at my discretion. Late assignments must be dated by the secretary in the Psychology Department Office and left in my mailbox or given to me directly. Assignments will be returned one week after they are handed in. Late assignments, however, will take longer to return. Please note that all assignments must have an APA style title page and be stapled together. Assignments that do not meet these requirements are subject to penalty and possibly refusal.

ATTENDANCE AND MISSING LABS:

Since the lab assignments depend on your participation in class, your attendance is a requirement of the lab. If you miss one lab you can drop the mark for this assignment. However, if you complete all of the lab assignments, then you can drop the lab assignment with the lowest grade. **There are no makeup lab assignments.**

NEXUS:

I will be using Nexus to post lab materials (e.g., handouts, lecture notes, supplementary problems and solutions, etc.). The URL for Nexus is: <https://nexus.uwinnipeg.ca/>.

GRADING:

The first lab assignment, Lab #0: Math Review, is optional and does not count for marks. There will be ten assignments due for marks and they will be equally weighted. The assignment with the lowest mark will be dropped, so your mark will be based on the best nine of the ten marked assignments.

SAMPLE LABORATORY GRADE CALCULATIONS:

Student	Lab Assignment										Lowest Lab Dropped	Total	Overall %
	1	2	3	4	5	6	7	8	9	10			
A	9.38	9.13	7.11	8.67	7.06	8.10	8.96	7.65	8.80	9.84	7.06	77.64	86.27%
B	9.19	9.78	7.20	8.83	8.94	4.82	6.75	0.00	8.01	7.06	0.00	70.58	78.42%
C	9.88	9.78	9.89	9.67	10.00	9.84	9.79	10.00	10.00	9.84	9.67	89.02	98.91%
Total	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	90.00	100.00%

Note. The assignments will be adjusted to a 10-point scale so they are equally weighted.

ACADEMIC REGULATIONS AND POLICIES:

Students should familiarize themselves with the academic regulations and policies regarding appeals, withdrawal dates, and academic misconduct (such as plagiarism, cheating and examination impersonation). See Section VII of the 2017-2018 Course Calendar, which can be found online: <http://www.uwinnipeg.ca/index/calendar-calendar>

Students who plan to conduct research interviews, focus groups, surveys, or any other method of collecting data from any person, even a family member, must obtain the approval of the appropriate ethics committee before commencing data collection. Exceptions are research activities in class as a learning exercise. See <http://www.uwinnipeg.ca/research/human-ethics.html> for submission requirements and deadlines.

SERVICES FOR STUDENTS WITH DISABILITIES:

Students with documented disabilities, temporary or chronic medical conditions requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., access to volunteer note-takers) are encouraged to contact Accessibility Services (AS) at 786-9771 or email [http://accessibilityservices@uwinnipeg.ca](mailto:accessibilityservices@uwinnipeg.ca) to discuss appropriate options. Specific information about AS is available on-line at <http://www.uwinnipeg.ca/accessibility>. All information about a student's disability or medical condition remains confidential.

UNIVERSITY POLICIES AND CLASSROOM COURTESY:

All cell phones or other electronic devices should be turned off before the student enters the classroom. In order to create an environment conducive to learning, students are invited to respectfully give their opinions and contributions to class discussions, bearing in mind the usual courtesies. Also, food and drinks should not be brought into the computer lab (4L29).

We ask that you please be respectful of the needs of classmates and instructors/professors by avoiding the use of unnecessary scented products while attending lectures. Exposure to scented products can trigger serious health reactions in persons with asthma, allergies, migraines or chemical sensitivities. Please consider using unscented necessary products and avoiding unnecessary products that are scented (e.g. perfume).

Students who plan to conduct research interviews, focus groups, surveys, or any other method of collecting data from any person, even a family member, must obtain the approval of the appropriate ethics committee before commencing data collection. Exceptions are research activities in class as a learning exercise. See <http://www.uwinnipeg.ca/research/human-ethics.html> for submission requirements and deadlines.

All students, faculty and staff have the right to participate, learn and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at <http://www.uwinnipeg.ca/respect>.

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make-up work and/or examinations without penalty. A list of religious holidays can be found at: <http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>

Students facing a charge of academic or non-academic misconduct may choose to contact the University of Winnipeg Students' Association (UWSA) where a student advocate will be available to answer any questions about the process, help with building a case, and ensuring students have access to support. For more information or to schedule an appointment, visit our website at www.theuwsa.ca/academic-advocacy or call 204-786-9780.

TENTATIVE LABORATORY SCHEDULE FALL 2017

Dates	Topic	Readings
Sept. 05 - 08	0. Math Review	Chapter 1 & Appendix A
Sept. 11 - 15	1. Summation and Descriptive Measures	Chapters 2, 3, 4
Sept. 18 - 22	2. Standard Scores & Normal Distribution	Chapter 5
Sept. 25 - 29	3. Random Samples and Probability	Chapter 8
Oct. 02 - 06	4. Binomial Distribution	Chapter 9
Oct. 19 - 13	<i>Fall Term Reading Week - No Labs</i>	
Oct. 16 - 20	<i>Term Tests - No Labs</i>	
Oct. 23 - 27	5. Introduction to Hypothesis Testing	Chapter 10
Oct. 30 – Nov. 03	6. Sign Test	Chapter 10
Nov. 06 - 10	7. Sampling Distribution of the Mean & Single Sample Tests	Chapters 12 & 13
Nov. 13 - 17	8. Confidence Intervals & Correlated t -tests	Chapter 14
Nov. 20 - 24	9. Independent Sample t & ANOVA	Chapters 14 & 15
Nov. 27 - Dec. 01	10. Correlation & Linear Regression	Chapters 6 & 7

VOLUNTARY WITHDRAWAL:

Final date for voluntary withdrawal without academic penalty is **Friday, November 10, 2017**.

**Students must formally withdraw from a course. If a student simply stops going to classes, the student may receive an “F” on their transcript and lose their tuition credit.

OTHER IMPORTANT DATES:

- The University is closed on Monday, **October 9, 2017** for Thanksgiving.
- **Fall Term Reading Week: October 9 - 13, 2017.**