

PSYB07

Data Analysis in Psychology

Instructor: Dr. Douglas A. Bors

Office: S638

Office Hours: Monday 3:00 - 4:30, 5:30 -6:30
Tuesday 2:15 - 4:00

Home Page: <http://www.utsc.utoronto.ca/~bors/>

TA s: Alex Hernandez, Darryn Jewell, Vanessa Lopak, Shiraz Malik, and Marty Niewiadonski

Textbook: *Statistical Methods for Psychology*, 5th edition,
By David Howell

This course is designed to provide the student with the basic principles of data analysis, both in terms of descriptive and inferential statistics. In terms of descriptive statistics, our treatment will include measures of central tendency, measures of variability, linear regression, correlation, and graphic presentation. With respect to inferential statistics, our introduction will focus on probability, Chi-Square, and Analysis of Variance. A working knowledge of Algebra is assumed.

Grading: Your final grade will be based on your marks on quizzes (10%), a mid-term examination (40%), and a final examination (50%). There will be five, or perhaps six, **unannounced** quizzes administered in class during the term. Your marks will be based on your four best performances (2.5% each). The term-test and the final examination, which is comprehensive, will be based on the lectures and assigned chapters from the textbook.

Dates: The date for the mid-term examination will be announced early in the term and post on the course web site, the link to which can be found on the instructor's home page. The date for the final examination will be published during the term by the registrar's office.

Make-Ups:

Make-ups for the quizzes are not permitted. Make-up mid-term examinations are never given without a legitimate reason. The student is required to present a medical certificate if a test is missed due to illness. (A death in the immediately family is usually considered the only other legitimate excuse.) The certificate must state that, *in the physician's opinion, you are unable to write the test*, not just that you were examined for a complaint. ***Do NOT phone or e-mail your instructor or a TA concerning missed exams.*** Certificates are to be given to the invigilator at the time of the make-up. Make-up mid-term tests will be given at ***5:00 pm on the Monday of the week following the original date*** of the exam. On the day of the make-up, the location of the test will be posted on the office door (S-638) of Dr. Bors and on the course web page. If the make-up is also missed for legitimate reasons, a mark will be assigned based on the student's performance on the final examination. *Please note that, make-ups for the final examination are entirely at the discretion of the College's registrar.*

Tentative Course Outline

<u>Week</u>	<u>Topic</u>	<u>Textbook Chapter</u>
1	Basic concepts & Descriptive Statistic	1 & 2
2	Descriptive Statistics	2
3	Distributions & Hypothesis Testing	3 & 4
4	Probability	5
5	Chi-Square	6
6	Linear Regression	9
7	Correlation	9
8	ANOVA: Basic logic	11
9	ANOVA: Independent Samples (One-Way)	11
10	ANOVA: Matched Samples (One-Way)	11
11	Integration	All Covered to date