University of Toronto in Scarborough

Course Outline

Psychology B07 H 3Y
Data Analysis in Psychology
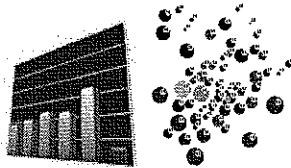
Summer 2008

Lectures location and time:	**University of Toronto (Scarborough Campus)** **Room: AC223** **Wednesdays 1-4 pm**
Tutorials times and locations:	**Tutorials start May 14th, 2008**
Course Director: **Contact:** **Office hours and location:**	**Gabriela Ilie, Ph.D.** gilie@utsc.utoronto.ca **Wednesdays 4-5:30 pm; Science Wing, SW638.**
Teaching Assistants:	**TBA**

EMAIL: For security purposes, student emails will be answered if and only if the subject line contains your name and student number. Expect a reply within 2 business days.

Course Description:

This course will focus on the fundamentals of the theory and the application of statistical procedures used in psychological research. Topics will range from descriptive statistics to simple tests of significance, such as t tests, correlation and regression, and one-way Analysis-of-Variance. A working knowledge of algebra is assumed.

Course Evaluation:

Grading:

Your final grade in the course will be based on quizzes (10%), a mid-term examination (40%), and a final examination (50%). There will be five in-class quizzes during the summer term. We will take your **best** <u>four</u> marks. The **quizzes**

will be administered in class or tutorial _without warning,_ so be prepared! Make-up quizzes are not given.
The date for the mid-term will be posted and announced early in the term (check the intranet postings in case you miss class). The date for the final examination will be published by the registrar's office sometime during the term.

Quizzes: **10%**
Midterm test: **40%**
Final exam(TBA): **50%**

Exam penalties:

A make up MIDTERM exam will be allowed, only, and only if a UofT medical certificate will be provided and the information can be verified with the medical professional who issued the note. All physicians will be called upon. No other circumstances will be considered for requests to attend a make up exam. _The physician's statement **must** include the following:_

    a. _Full name, mailing address, telephone number of the physician._
    b. _State the nature of the illness and its duration (i.e., specific dates, covered), and_
    c. _An indication of whether the illness and/or medication prescribed would have SERIOUSLY affected the student's ability to study and perform over the period in question._

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.**

**WARNING:** Unless these requirements are met a make up for the mid-term exam **will not be granted.** No exceptions will be made. **No other considerations for the miss mid-term exam will be given.** No exceptions will be made.

Do not phone or e-mail your instructor or TA concerning missed exams. Medical certificates are to be handed in an envelope marked for Dr. Ilie, PSY B07, in Room S521-B, to the Administrative Assistant **within 48 hours of the missed mid-term exam.** It is your responsibility to make the arrangements necessary to insure this documentation is handed in to the instructor on time. Make-up mid-terms will be given on the **Tuesday** of the week following the original date of the exam. On the date of the make-up, the location of the exam will be posted on the intranet. **No make-up exams will be given for missed make-up midterm exams, no matter what the circumstance.** If the _make-up_ also is missed for legitimate reasons (unavoidable obligatory hospitalization), a grade will be assigned on the basis of the student's relative performance on the final examination. Make-ups for final examinations are entirely at the discretion of the registrar's office.

Required text   _Gravetter, F. & Wallnau, L. (1991). Statistics for the Behavioral Sciences, 7th edition._

Wadsworth Thompson Learning, New York. And Study guide.

Gravetter, F. & Wallnau, L. (1991). <u>Study guide to accompany "Statistics for the Behavioral Sciences</u>, 7th edition. Wadsworth Thompson Learning, New York.

<u>Outline of topics to be covered</u>

<u>Week - date</u>	<u>Topics</u>	<u>Chapters</u>
1 - May 7th'08	Introduction (Basic Concepts)	1 & 2 (*Except: 2.6 Stem and leaf displays)*
2 - May 14th '08	Central tendency and variability	3 & 4
3 - May 21th '08	z-scores	5
4 - May 28st '08	Probability	6
5 - June 4th '08	Probability (cont)	7
6- June 11th '08	Hypothesis Testing	8
<u>MIDTERM</u>		**<u>1, 2, 3, 4, 5, 6, 7, 8</u>**
7. June 18th '08	t test introduction	9
8 – June 25th '08	t tests – independent sample	10
July 2nd'08	**Reading week – no class**	
9. July 9th, '08	t tests: related samples 11	
10 July 16th'08	ANOVA	13
11 July 23rd, '08	Correlation	16
12 July 30th, '08	Regression	17
<u>FINAL EXAM</u>		**<u>9, 10, 11, 13, 16, 17</u>**