

Course Outline
Psychology B07 H 3Y
Data Analysis in Psychology

Summer 2005: May 9th - August 8th, 2005

Lectures location and time: University of Toronto (Scarborough Campus)
Room: Science Wing (SW) 143, Tuesdays 5-8 pm
<http://www.utsc.utoronto.ca/~timetable/url.php>

Tutorials times and locations: Tutorials start in the second week of class.
Tuesdays 4-5 pm
3001: MW 264 (Jason); 3002: MW 223 (Miriam);
3003: MW262 (Sonia);
3004 HW214 (Bonnie)

Course Director: Gabriela Ilie, Ph.D.
Contact: ghusain@psych.utoronto.ca
<http://psych.utoronto.ca/~ghusain/Teaching.htm>
Office hours and location: Tuesdays 3-4 pm; Science Wing, SW638.

Link to (updated weekly): Lecture Notes

Teaching Assistants: Sonia Shukla: sshukla@sprint.ca
Miriam Wynberg: miriam.wynberg@utoronto.ca
Jason Ozubko: ozubkoj@rogers.com
Bonnie Cheng: bonniecheng00@yahoo.ca

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:

Assignment 1 (May 31st, 2005): **10%**
Midterm test (June 21st, 2005): **40%**
Assignment 2 (July 26th, 2005): **10%**
Final exam(TBA): **40%**

Assignment Penalties: All assignments must be handed in class to the Course Instructor, on the due date, no later than 7:00 pm. Penalty for assignments handed in late up to 24 hours after the

due date will be marked down 20% from the start, before the marking scheme is applied. Assignments received more than 24 hours late will NOT be accepted. NO exceptions will be made.

Exam penalties: Make up exams will be allowed, only, and only if a medical note will be provided and the information can be verified with the medical professional who issued the note. No other circumstances will be considered for requests to attend a make up exam.

Required text Gravetter, F. & Wallnau, L. (1991). Statistics for the Behavioral Sciences, 6th edition.
Wadsworth Thompson Learning, New York.

Helpful additional readings Gravetter, F. & Wallnau, L. (1991). Study guide to accompany "Statistics for the Behavioral Sciences, 6th edition. Wadsworth Thompson Learning, New York.

Outline of topics to be covered

Week - date	Topics	Chapters
1 - May 10 th ,05	Basic concepts	1 & 2
2 - May 17 th ,05	Central tendency Variability	3 & 4
3 - May 24 th , 05	Z scores	5
4 - May 31 st , 05	Probability and the normal distribution	6 <u>Assignment 1 Due Date</u>
5 - June 7 th , 05	Probability & samples	7
6- June 14 th ,05	Hypothesis testing	8
7 – June 21 st ,05	<u>MIDTERM</u>	<u>1-8</u>
8 – July 5 th , 05	The t-statistic	9
9 – July 12 th ,05	t tests: Independent samples	10
10 – July 19 th ,05	T-tests: Related samples	11
11 – July 26 th ,05	Introduction to analysis of variance	13 <u>Assignment 2 Due Date</u>
12 – August 2 nd ,05	Correlation & regression	16
	<u>FINAL EXAM</u>	<u>1-8, 9-11; 13&17</u>