

*University of Toronto in Scarborough  
Course Outline*

**Psychology B07 H 3Y**



*Data Analysis in Psychology  
Summer 2010*

**Lectures location and time:** University of Toronto (Scarborough Campus)

**Room:** SY110

**Time:** Wednesdays 1 pm - 4 pm

**Tutorials times and locations:** Tutorials start May 12th, 2010

**Course Director:** Gabriela Ilie, Ph.D.

**Contact:** [gilie@utsc.utoronto.ca](mailto:gilie@utsc.utoronto.ca)

**Office hours and location:** Thursdays 11–12 pm (new office as of May 7<sup>th</sup> 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 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 Aplia quizzes (10%), a mid-term examination (40%), and a final examination (50%). There will be 11 graded weekly on-line quizzes during the summer term. We will take your best 10 marks to account for 10% of your course grade. The quizzes will be administered on-line through the Aplia system. You will have 1 week (Monday through Sunday) to complete each quiz after the material has been covered in class. Make-up quizzes are not given. Quiz 12 (correlation) is a practice quiz only and will not be graded. Its purpose is to give you an opportunity to prepare for the exam, by offering you practice exam questions. In addition to the quiz questions every week you will have access to Chapter practice questions for the exam. Feedback on your performance is given automatically by Aplia. You will not be told whether your response was correct or not, but if your response was incorrect you will be provided feedback in terms of how the question should have been answered and you will have an opportunity to learn from your mistakes. The Aplia system complements your tutorials and I suggest you use it wisely every week.

The date for the mid-term exam 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. I will also make an announcement on the intranet once I am informed of the location, time and date of the exam.

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. Please note that we call the physicians to check the accuracy of the medical note. 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 midterm 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 SW-420B to Gloria Luza **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 **Thursday** 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 exam* 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**

*TEXT AND APLIA PIN (MANDATORY):*

*Gravetter, F. & Wallnau, L. (2009). Statistics for the Behavioral Sciences, 8th edition. Wadsworth Thompson Learning, New York. PLUS APLIA PIN CODE – MUST HAVE FOR THE CLASSROOM ASSIGNMENTS AND QUIZZES.*

*ISBN: 0538777265*

*THE USE OF ANY OTHER TEXTBOOKS, OR EDITIONS OF THIS TEXT ARE NOT RECOMMENDED. Also, I do not recommend you purchase your text from any place else other than our own bookstore as the two products have been packaged together for us especially at a better cost. If you purchase your book separately from a supplier outside the campus and get the Aplia code on your own, you will need to pay an additional 70 US dollars for the Aplia code alone. Keep this in mind as you make your decision.*

### **Outline of topics to be covered**

Week	Lecture date	Topic	Text chapters	Aplia assignment	Due
1	May 5 <sup>th</sup>	Intro to Stats Frequency Distributions	1 & 2	Introduction to Aplia (practice)	3 <sup>rd</sup> – 9 <sup>th</sup> May
2	May 12 <sup>th</sup>	Central Tendency	3	Quiz 1: Ch. 1 & 2	10 <sup>th</sup> – 16 <sup>th</sup> May
3	May 19 <sup>th</sup>	Variability	4	Quiz 2: Ch. 3	17 <sup>th</sup> – 23 <sup>rd</sup> May
4	May 26 <sup>th</sup>	Z scores	5	Quiz 3: Ch. 4	24 <sup>th</sup> – 30 <sup>th</sup> May
5	June 2 <sup>nd</sup>	Probability	6	Quiz 4: Ch. 5	31 <sup>st</sup> – 6 <sup>th</sup> June
6	June 9 <sup>th</sup>	Probability & Samples	7	Quiz 5: Ch. 6	7 <sup>th</sup> – 13 <sup>th</sup> June
7	June 16 <sup>th</sup>	Introduction to Hypothesis Testing	8	Quiz 6: Ch. 7	14 <sup>th</sup> - 20 <sup>th</sup> June

8	June 23 <sup>rd</sup>	t test intro	9	Quiz 7: Ch. 8	21 <sup>st</sup> – 27 <sup>th</sup> June
9	28 <sup>th</sup> – 4 <sup>th</sup>	Reading week – no class, no Aplia assignments, no quizzes.			
10	July 7 <sup>th</sup>	t independent samples	10	Quiz 8: Ch. 9	5 <sup>th</sup> - 11 <sup>th</sup> July
11	July 14 <sup>th</sup>	t related samples	11	Quiz 9: Ch. 10	12 <sup>th</sup> – 18 <sup>th</sup> July
12	July 21 <sup>st</sup>	ANOVA	13	Quiz 10: Ch. 11	19 <sup>th</sup> – 25 <sup>th</sup> July
13	July 27 <sup>th</sup>	Correlation	16	Quiz 11: Ch. 13	26 <sup>th</sup> – 1 <sup>st</sup> August
14	Course ends; final examination scheduled by registrar's office			Ch. 16 – practice questions	2 <sup>nd</sup> – 8 <sup>th</sup> August

**CHAPTERS INCLUDED IN THE MIDTERM EXAMINATION: 1, 2, 3, 4, 5, 6, 7**

**CHAPTERS INCLUDED IN THE FINAL EXAMINATION: 8, 9, 10, 11, 13, 16**

Good luck with all your courses this semester!

See you in the first day of class: May 5<sup>th</sup>, 2010.