

Course Syllabus

PSYC08 – Winter 2012 **Advanced Data Analysis in Psychology**

Lectures location: Room HW 216
Lectures times: Wednesdays 2 - 5 pm

Course Instructor: Dwayne E. Paré.

Contact: Instructor and TA contacts are listed under 'contact' section of this course page.

Teaching Assistants: TA info is posted under the 'What's Hot!' section of this course page.

Office hours and exam reviews: Check the Blackboard for postings.

Course Description: This course is a continuation of PSYB07. The primary focus of this course is on the understanding of the Analysis-of-Variance (ANOVA) and its application to various research designs. Examples will include homogeneity of variance, normality assessments, a-priori and post hoc tests, effect size, and power. Finally, there will be an introduction to regression and multiple regression, including discussions of design issues and interpretation problems.

Course Evaluation: Your final grade in the course will be based on:

Quizzes and Assignments (worth 20%)

Mid-term examination (worth 40%)

Final examination (worth 40%)

You will be given a number of 'pop' quizzes and homework assignments throughout the term. Quizzes will be given during tutorial, and your lowest quiz score will be dropped. Assignments will be given on a semi-regular basis, with only a random few being graded by the TAs. Assignments will be handed in during tutorial and/or online. Some of the assignments will involve giving peer feedback (using peerScholar) to allow for revisions before being graded by a TA. Details of all assignments will be posted on Blackboard.

The date for the mid-term examination will be posted and announced early in the term (check Blackboard announcements regularly). The date for the final examination will be published by the registrar's office on ROSI sometime during the term. The exams will be 3 hours long and will assess your theoretical understanding of the material as well as your ability to solve problems.

Tentative Course Outline:

Week	Topic	Chapters
1	Review of PSYB07	1 through 7
2	Introduction to ANOVA	11
3	One-Way between-subject designs	11
4	Power & Magnitude of Experimental Effect	8 & 11
5	Introduction to Multiple Comparisons	12
6	Introduction to Repeated Measures Designs	14
7	Multiple comparisons continued	14
8	Factorial Designs (between-subjects only)	13
9	Factorial Designs (Mixed designs)	13
10	Introduction to Multiple Regression	15

Make-Ups (quizzes & exams):

Make-up quizzes are not given; you are expected to be in tutorial to write the quiz. Make-up mid-terms are never given without a legitimate reason. Students who miss the mid-term exam are required to present a medical certificate if a test is missed due to illness. 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 TA concerning missed exams. Certificates are to be given to the invigilator at the time of the exam.

Deferred Exams:

For final exams, UTSC sets the policies (not the course instructor). You are allowed to defer your exam if you cannot write it - but you must follow the university's procedures. Please see this link for information on how to defer a final exam:

http://www.utsc.utoronto.ca/~registrar/current_students/deferred_exams

Policies on Academic Integrity

Please review the UTSC Code on Academic Behaviour:

http://www.utsc.utoronto.ca/courses/calendar/University_of_Toronto_Policies.html#Code_of_Behaviour_on_Academic_Matters

AccessAbility

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. The UTSC AccessAbility Services staff (located in S302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

The above schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances.