

## ***Course Syllabus***

### **PSYC08 – Summer 2015** Advanced Data Analysis in Psychology

**Lectures location:** Room AC223

**Lectures times:** Wednesdays 3 - 5 pm

\*Some lectures may begin at 2PM, but you will have sufficient warning\*

**Course Instructor:** Dwayne E. Paré.

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

**Teaching Assistants:** TA info and tutorial Sections are 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.

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

**Quizzes (4 x 2% = 8%):**

You will be given a number of 'pop' quizzes and homework quizzes throughout the term. Pop quizzes will be given during tutorial while homework quizzes will be done online. Your lowest 2 quiz scores (either pop or homework) will be dropped. There will be at least 6 quizzes in total.

**Online Activities (6 x 2% = 12%):**

There will be 6 Online Activities in the course to give you some hands on experience with data and/or other interesting experiences. Details about each activity will be posted on Blackboard throughout the term. These activities are to supplement the lecture-time and will be given on a semi-regular basis.

**Assignments (10%):**

The assignment(s) will be handed in during tutorial and/or online. Details of the assignment(s) will be posted on Blackboard.

**Mid-term examination (35%):**

The date for the mid-term examination will be posted and announced early in the term (check Blackboard announcements regularly).

**Final examination (35%)**

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:**

<b><i>Review of PSYB07</i></b>
<b><i>Introduction to ANOVA</i></b>
<b><i>Hypothesis Testing &amp; Assumptions</i></b>
<b><i>One-Way between-subject designs (Power &amp; Magnitude)</i></b>
<b><i>a priori &amp; post hoc comparisons</i></b>
<b><i>Simple Effects</i></b>
<b><i>Introduction to Repeated Measures Designs</i></b>
<b><i>Factorial Designs (between-subjects only)</i></b>
<b><i>Factorial Designs (Mixed designs)</i></b>

**Make-Ups (quizzes & Mid-term Exam):**

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 make-up 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](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](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](mailto: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.*