PSYC 3000 A & A1: ADVANCED DESIGN AND ANALYSIS

Instructor	Craig Leth-Steensen
Term	Full Summer 2026 (May-August)
Course Delivery	Lectures: Online (Asynchronous) Tutorials: Online (Synchronous)
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COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

This course will provide an in-depth coverage of the basic principles underlying the applied use of statistics in research. In addition to a focus on probability and experimental design, this course will ensure that students leave with knowledge of the essential statistical techniques (namely, non-parametric and contingency table analyses, simple and multiple regression, and analysis of variance). Throughout, SPSS will be used to run numerous statistical analyses. Although some simple calculations will periodically be required, the emphasis will be on obtaining a conceptual understanding of the material and a developing a general ability to deal with data and the results of statistical analyses.

EVALUATION (SUBJECT TO CHANGE)

60% - Seven online tests (all multiple choice and proctored by CoMaS): Four in the 1st half worth 8.5% each and three in the 2nd half worth 12% each.

40% - Five assignments (SPSS and report-based): Two in the 1st half worth 6% each and three in the 2nd half worth 6% each.

TEXT

Agresti, A., Franklin, C., and Klingenberg, B. (2021). Statistics: The Art and Science of Learning From Data (5th Ed.). Pearson Education, Inc. **ISBN-13: 9780136879992**

Essentially, students can buy the e-Text for this 5th Ed. directly from the link below for $67.99. Note that we will NOT be using the MyLab version of the text in this course, so do not get that version. As well, you do not need the Pearson Study Prep for + $21 unless you'd like to have something extra. If you'd like a hardcopy instead of this e-version, this is possible and I can tell you how (it would end up being about $225):

https://www.pearson.com/en-ca/subject-catalog/p/statistics-the-art-and-science-of-learning-from-data/P200000006061