

Statistical Methods I and II
AS-AK-SC-HH/PSYC 2020D 6.0

Fall 2011-Winter 2012
Wed. 11:30-2:30 in Room ACE 002

Instructor: Christopher D. Green (christo@yorku.ca, 286 BSB, ext. 66164)

Teaching Assistant: Arlie Belliveau

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Office Hour: Wed. 10:30-11:30

Course blog: <http://green2020.livejournal.com/>

Course Description:

An introduction to the analysis of data from psychological studies. Fundamental concepts and techniques of both descriptive and inferential statistics and their application to psychological research. Prerequisite or corequisite: AK/AS/HH/SC/PSYC 1010 6.00 or AK/HH/PSYC 2410 6.00, with a minimum grade of C when used as a prerequisite.

Required Text:

Howell, D. C. (2009). *Statistical methods for psychology* (7th ed.). Wadsworth.

It is strongly recommended that you purchase an access code for the on-line statistical software called "Aplia" as well.

Schedule

7 Sept. Introduction & Chapter 1 (basic vocabulary)
14 Sept. Chapter 2 (graphs, measure of central tendency and variability)
21 Sept. Chapter 3 (normal distribution)
28 Sept. Chapter 4 (sampling distributions and hypothesis testing)
5 Oct. Chapter 5 (probability)
12 Oct. -----Co-Curricular Week -----
19 Oct. overload/review
26 Oct. First Midterm test, 2 hrs. (20%)
2 Nov. Chapter 6 (chi-square)
9 Nov. Chapter 7 (hypothesis test with means: z-, t-tests)
16 Nov. Chapter 8 (power)
23 Nov. overload/review
30 Nov. Fall Term test, 2 hrs. 50 min (20%)
----- **WINTER BREAK** -----
4 Jan. Welcome back, review Fall Term Test.
11 Jan. Chapter 9 (correlation and regression)
18 Jan. Chapter 10 (alternative correlational techniques)
25 Jan. Chapter 11 (simple analysis of variance)
1 Feb. Chapter 12 (multiple comparisons in analysis of variance)
8 Feb. overload/review
10 Feb. ----- Last Day to Drop Course -----
15 Feb. Second Midterm Test, 2 hrs. 50 min. (30%)
22 Feb. ----- Reading Week -----
29 Feb. Chapter 13 (to 13.7; factorial analysis of variance)
7 Mar. Chapter 13 (13.8 to end; factorial analysis of variance cont'd)
14 Mar. Chapter 14. (14.1-14.4, 14.7 to p. 454; repeated measures analysis of variance)
21 Mar. Chapter 18 (18.1-18.4, 18.6-18.10; non-parametric stats)
28 Mar. overload/review
Date TBA: Final Examination, 3 hrs. (30%)

[Add.dat1](#)

[Add.dat2](#)