

PSYCHOLOGY C08S

Meetings

Monday: 11:00 - 12:00

Room: S128

Friday: 11:00 - 1:00

Room: H215

Instructor

Dr. Douglas A. Bors

Office: S540C

Phone: 287-7468

Office Hours

Tuesday: 9:00 - 11:00

Thursday: 10:00 - 12:00

Tutorials

T0001 Wednesday 1:00 - 2:00 in R4224

T0002 Wednesday 1:00 - 2:00 in H309

Text

Howell, D.C. (1992). *Statistical methods for psychology*. Belmont, California: Duxbury Press. (3rd Edition)

Tentative Course Outline

<u>Week</u>	<u>Topics</u>	<u>Chapter</u>
1	A brief review of PSYB07. Sample mean and variance as unbiased estimators. Sampling of the mean.	2 and 4
2	Sampling distribution of the mean as an unbiased estimator. Review of the t test..	7
3	Introduction of ANOVA. The basic logic and assumptions of Analysis of Variance.	11
4	One-Way ANOVA. Fixed versus random models. Magnitude of experimental effect. Type I errors and Power.	11
5	Comparisons among treatment means. Per experiment and familywise error rates. A Priori comparisons.	12

6	Post Hoc comparisons. Polynomial trends. Choosing among the various tests.	12
7	Two-Way ANOVA. Interactions and simple effects. Power.	13
8	Unequal sample sizes. Proportional solution versus the unweighted-means solution.	13
9	Repeated measures designs and analysis. The covariance matrix. One-Way repeated measures ANOVA.	14
10	Factorial designs. One between-subjects variable and one within-subjects variable.	14
11	Two within-subjects variables. Multiple comparisons and Post Hoc tests.	14
12	Introduction to multiple regression. The multiple correlation coefficient.	15
13	Partial and semipartial correlations. Suppressor variables.	15

Grading Your final grade will be based on problem sets, quizzes, a mid-term exam, and a final exam. There will be 10 weekly problems sets (.5% each) drawn from the exercises at the end of the chapters in the text. They are to be handed in at the tutorial meeting on the Wednesday the week following their assignment. Late assignments will not be accepted. There will be 8 unannounced quizzes given during the Wednesday tutorial sessions. Only your best 5 scores will be counted (2% each). Make-ups for missed quizzes are NOT given. The date for the mid-term exam (35%) will be announced early in the term. It will likely be given at 5:00 pm. Make-ups for the mid-term will only be permitted with an appropriate medical excuse. The make-up will be offered only once, at 5:00 pm on the Wednesday of the week following the exam. The place of the exam will be posted on S540C the afternoon of the make-up. The date for the final exam (50%) will be published by the registrar. Although the final exam will be comprehensive, it will focus on the material we cover after the mid-term.