

STAT 401D Statistical Methods

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Office Hours: Wed and Fri 2:00-3:30
Prerequisite: Introductory Statistics

Texts: 1) Course pack from *Copyworks*
2) Howel, D.C. *Statistical Methods for Psychology*, 6th ed. Duxbury.

<i>Week</i>	<i>Topics</i>
Part I (1-5)	Populations; parameters; random sampling; estimation; standard errors and sampling distributions; randomization and experimental design; 1-sample and 2-sample designs; tests and confidence intervals for means, proportions, and standardized effect size; sample size requirements; assumptions and effects of violating assumptions <i>First Midterm Examination, 100 points (9/28)</i>
Part II (5-10)	One-factor and two-factor designs; main effects, interaction effects, and simple effects; tests and confidence intervals; sample size requirements; assumptions and effects of violating assumptions <i>Second Midterm Examination, 100 points (11/2)</i>
Part III (11-15)	Designs with quantitative factors; test and confidence intervals for correlation and slope; matched-pairs/repeated measures/within-subject designs; multiple regression; analysis of covariance; sample size requirements; assumptions and effects of violating assumptions <i>Final Comprehensive Examination, 100 points (12/14, 9:45-11:45)</i>

Grading:

A total of 100 points may be earned from the homework assignments. Final course grades will be determined according to the following rule:

376-400: A	332-347: B	292-307: C	252-267: D
360-375: A-	320-331: B-	280-291: C-	240-251: D-
348-359: B+	308-319: C+	268-279: D+	0-239: F