

# CLPS 2906: Experimental Design

Fall 2012

**Instructor:** Bill Heindel  
Metcalf Room 345; ext. 3-9715

**Office Hours:** Thursday 1-3 pm or by appointment

**Text:** Maxwell, S.E. & Delaney, H.D. (2004). Designing Experiments and Analyzing Data: A Model Comparison Perspective. Mahwah, NJ: Lawrence Erlbaum.

## Course Description and Requirements

This course covers the statistical principles underlying experimental design and analysis. The requirements for this course include (roughly) weekly assignments and three exams. The exams will account for 75% and assignments for 25% of the course grade.

Topic	Reading
Review of Statistics	
Chapter 3: One-Way Between-Subjects Designs	67-88 88-110 110-126
Chapter 4: Individual Comparisons of Means	129-163 163-186
Chapter 5: Testing Several Contrasts	193-213 213-237
<b>EXAM 1</b>	
Chapter 6: Trend Analysis	243-257 257-269
Chapter 7: Two-Way Between-Subjects Designs	275-297 297-343
Chapter 9: ANCOVA and Blocking Designs	399-420 420-452
<b>EXAM 2</b>	
Chapter 11: One-Way Within-Subjects Designs	525-539 539-567
Chapter 12: Higher-Order Within-Subjects Designs	573-592 592-615
Chapter 13: One-Way Within-Subjects Designs - Multivariate Approach	624-577 647-676
<b>EXAM 3</b>	