Data Analysis II
Psy 612
CRN 25146
Winter 2011
1000-1120 TR
Gerlinger 242

Instructor:
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Laboratory
180 Straub CRN: 25147, 25148 F 10-1120; 1130-1250

Course Information
This is the second course in a three course graduate level data analysis sequence. This course is devoted to topics in multiple regression with special emphasis on complex analysis of variance and experimental design. It is assumed that all students have successfully completed Psy 611 (Data Analysis I) or equivalent. In general, the text chapters listed in the syllabus cover the material planned for class on the day that they are assigned and provide more in depth coverage of some of the issues.

Inclement Weather Policy
If Eugene School District 4J cancels (not delays) school, we will cancel class. Nothing we do in this class can’t wait until its safe to travel.
Texts:  

Class notes available on Blackboard

Other Useful Books:

Analysis of Variance & Experimental Design


Multiple Regression & Related Issues


Conducting Empirical Research


Class Requirements:

Complete take-home midterm (35% of grade), final (50% of grade), and weekly homework assignments (15%) of grade (see guidelines). Homework will be assigned and due each Thursday. Homework should be e-mailed to Naomi Aguiar at naguiar@uoregon.edu by 1000 on the Thursday that it is due. The laboratory section may have additional assignments.
Syllabus

Introduction to the General Linear Model

1/4  Linear Regression  P 1, 2
1/6  Regression Diagnostics  P 3
1/11 Basic Multiple Regression  P 5, 8
1/13 Partitioning variance  P 9, 10
1/18 Regression with categorical variables  P 11-12
1/20 Trend Analysis  P 13

Complex Analysis of Variance

1/25 Representation of Experimental Designs  K&W 10-13, 21-22
1/27 Factorial Analysis of Variance  K&W 24
2/1 Random Factor Models & Quasi-F’s  K&W 25  Midterm Out
2/3 Nested Designs  K&W 25
2/8 Repeated Measures and Randomized Blocks  K&W 16-20  Midterm Due
2/10

Advanced Topics

2/15 Missing Data and Nonorthogonal Designs  K&W 14
2/17 Analysis of covariance  K&W 15, P 14-15
2/22 Heteroscedasticity
2/24 Autocorrelation
3/1 Categorical Dependent variables  P 16-17
3/3
3/8 Repeated Measures ANCOVA  Final Out
3/10 Review
3/16 FINAL DUE 8:00 AM by e-mail

P: Pedhazur;  
K&W: Keppel & Wickens