Data Analysis II
Ps 612
CRN 24631
Winter 2009
1000-1120 UH
Chiles 125

Instructor:
Robert Mauro
311 Straub
mauro@uoregon.edu
346-4917

Office Hours: WH 1300-1500 & by appt.

Teaching Assistants:
Alice Graham
407 Straub
agraham2@uoregon.edu
346-5778

Office Hours: M 2:00-4:00 & by appt.

Amber Thalmayer
351 Straub
athalmay@uoregon.edu
346-4930

Office Hours: U 1:45-3:45 & by appt.

Laboratory
180 Straub CRN: 24632, 24633 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. The laboratory section may have additional assignments.
Syllabus

Complex Analysis of Variance

1/6  Representation of Experimental Designs  
1/8  Factorial Analysis of Variance  
1/13 Random Factor Models & Quasi-F’s  
1/15 Nested Designs  
1/20 Repeated Measures and Randomized Blocks  
1/22

Multiple Linear Regression

1/27  Basic Multiple Regression  
1/29  Introduction to Matrix Algebra  
2/3  Advanced Topics in Multiple Linear Regression  
2/5  Partitioning variance  
2/10  Regression with categorical variables  
2/12  Trend analysis  
2/17  Missing Data and Nonorthogonal Designs  
2/19  Analysis of covariance  
2/24  Heteroscedasticity  
2/26  Autocorrelation  
3/3  Repeated Measures ANCOVA  
3/5  Multilevel analysis  
3/10  Categorical Dependent variables  
3/12

3/18  FINAL DUE 8:00 AM by e-mail to athalmay@uoregon.edu

P:  Pedhazur;  
K&W:  Keppel & Wickens