

STA 6934 (STA 6248) Advanced Topics in Linear Models Spring, 2006

Course Outline and Policy

- Instructor:** Dr. André I. Khuri
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- Office Hours:** Monday, Wednesday, Friday, 3rd Period.

Catalog Description [Credits: 3; Prereq: STA 6246, STA 6329 (matrix algebra)]

This course is a continuation of STA 6246 (Linear Models). Emphasis will be placed on variance components estimation, analysis of unbalanced mixed or random models, graphical techniques for comparing designs for *ANOVA* models, and an introduction to *generalized linear mixed models*.

Topics Listing

1. **Chapter 1:** Estimation of variance components for unbalanced models.
2. **Chapter 2:** Measures of data imbalance, a method for determining the effect of imbalance on parameter estimation.
3. **Chapter 3:** Exact tests concerning unbalanced random two-way models.
4. **Chapter 4:** Exact tests concerning unbalanced random models with unequal cell frequencies in the last stage.
5. **Chapter 5:** Comparison of designs for random models.
6. **Chapter 6:** An introduction to generalized linear mixed models.

Textbook: Advanced Topics in Linear Models, Notes by Dr. André I. Khuri (available at Target Copy Center on University Avenue).

Grading Policy

	<u>Points</u>	<u>Date</u>
Test 1	100	Friday, February 17
Test 2	100	Friday, March 31
Homework Assignments/Projects	100	to be announced
Class Presentation	100	
Final Exam (cumulative)	200	Friday, May 5 (10:00 A.M. - 12:00 Noon)