

Lecture: Tuesdays 3:30-6:10 pm  
 Location: 194 Mercer, Room 305  
 Office Hours: Tuesdays 2:30-3:30 pm, and by appointment  
 Website: The course will use Blackboard.  
 Text: The course lecture notes (available via Blackboard) function as the primary text. You are encouraged to purchase one of the following books for reference and an additional perspective: Tabachnick & Fidell, *Using Multivariate Statistics (4<sup>th</sup> Ed.)*; Stevens, *Applied Multivariate Statistics for the Social Sciences*; or Field, *Discovering Statistics Using SPSS, (2<sup>nd</sup> Ed.)*. Each book has different strengths and emphasis.  
 Software: SPSS version 13 (versions 11 and 12 should suffice).

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**COURSE REQUIREMENTS:**

Participation: 10% You are expected to attend class and participate in class discussions.  
 Computer problems: 10% There will be several assigned problems intended to give you practical experience using the statistical software.  
 Computer mini-project: 15% This is a longer computer-based assignment that will be assigned a letter grade.  
 Mid-term exam: 20% There will be a short answer exam covering the reasoning behind the use of different statistical techniques (open notes).  
 Data Analysis Projects: 45% There will be two projects (worth 22.5% each) that will involve: presentation of the research questions being addressed; choice of analytic approach, including assumptions; analysis & presentation of findings; and discussion of their implications.

Lab section: A required lab section runs from 6:20-8:25pm immediately after class on Tuesdays. It will meet in either Kimball Hall Rm. 203 or Tisch Hall Rm. LC-7. *First meeting is Tuesday Sept. 13.* The lab provides hands-on guidance for homework assignments and for the second data analysis project.

Late assignment policy: Assignments are to be handed in on time.

**SCHEDULE**

<i>Date</i>	<i>Topic</i>	<i>Optional reading</i>	
		<i>T&amp;F</i>	<i>Stev.</i>
Sept.	6 Mathematical modeling; statistical modeling and inference		
	13 Multiple regression; statistical control	Ch. 3	Ch. 3
	20 Variable coding, regression interactions	Ch. 4	Ch. 3
	27 Modeling tools: exploratory data analysis, diagnostics, specification tests	Ch. 5	Ch. 3
Oct.	4 ANOVA as regression; the ANOVA/ANCOVA framework	Ch. 8	Ch. 9
	11 Analysis of covariance	Ch. 8	Ch. 9
	18 Analysis of covariance (cont.)	Ch. 8	Ch. 9
	25 Regions of significance; Oaxaca decomposition		
Nov.	1 Exam		
	8 Multiple outcomes: MANOVA/MANCOVA, profile analysis	Chs. 9&10	Ch. 4,5
	15 Repeated measures	Ch.10	Ch. 13
	22 Repeated measures (cont.)	Ch.10	Ch. 13
Dec.	29 Multi-level models, mixed effects.		
	6 Missing data		
	13 NO CLASS (Thursday classes meet instead)		
	21 Final projects due (this is a Weds.)		