



Family & Consumer Studies
6110/5110
Graduate Multivariate Statistics
Spring 2004

“Tonight, we’re going to let the statistics speak for themselves”

WHO SHOULD TAKE THIS COURSE?: If you are a graduate or an undergraduate student who wants to know more about how to analyze data using multivariate statistical techniques, this class will appeal to you.

WHAT ARE YOU GOING TO LEARN?: You will learn principles of empirical research in the social sciences (do’s and don’ts), learn how to move from theory to research design to the preparation of data essential to conduct empirical research, familiarize yourself with a wide range of statistical tools, and have the opportunity to conduct multivariate analyses on a research question of their choosing.

We cover analysis of variance and covariance, multiple regression, regression diagnostics, logistic regression, path analysis/structural equations, some factor analysis.

WHAT SOFTWARE WILL YOU USE?: All students will become familiar with SAS or Statistical Analysis System, one of the most widely adopted statistical software packages. What you will need to know about SAS will be covered in class.

WHO WILL TEACH THIS CLASS (AND IS HE ANY GOOD)?: The instructor, Professor Ken R. Smith, has been teaching this class for the past 15 years to students in a wide range of disciplines who have varying levels of mathematical backgrounds. (At least he thinks he is pretty good at it.)

ARE THERE PREREQUISITES: You will do much better if you have successfully completed an introductory statistics that covered material up to simple regression. If you have not, email me so we can discuss it (ken.smith@fcs.utah.edu).

REQUIRED TEXTBOOKS:
 Knoke, David, George W. Bohrnstedt and Alisa Mee. Statistics for Social Data Analysis. Hardcover. 4th Edition, (2002) F.E. Peacock.

Ronald P. Cody and Jeffrey K. Smith. Applied Statistics and the SAS Programming Language. Paperback. 4th edition (April 1997).

GRADING:

First Midterm	20%
Second Midterm	20%
Final	20%
Homework	10% - mostly turn it to prepare for exams
Statistical Analysis Research Paper	30%