

# Statistics 206

## Applied Multivariate Analysis

Fall quarter, 2007

### Statistical Topics

Graphical Representations of Multivariate Data.

Multivariate Regression.

Discriminant Analysis.

Principal Components Analysis.

Cluster Analysis.

Canonical Correlation Analysis.

Correspondence Analysis.

Multidimensional Scaling.

Kernel Methods.

Hypothesis Testing, confirmatory analyses.

MANOVA.

This course will have a hands-on approach with lab sessions and homework projects involving computations on actual data.

Students will learn and use R/Spplus, which will also provide the basis for examples during the lectures.

Prerequisite: at least one course in statistics or probability.  
(No previous computer experience is necessary.)

Web page: <http://www-stat.stanford.edu/~susan/courses/s206/>