

STAT 400-3

Data Analysis

Course Description

This course will emphasize those general aspects of data analysis that arise while analyzing particular data sets. Topics that inevitably arise include graphical analysis and summary of multivariate relationships, nonparametric smoothing, the treatment of outliers, resampling, data mining, transformations, and the role of simulation and modeling in data analysis. The use of data context to suggest non-standard methods of data analysis will also be encouraged.

More than half of the class sessions will be based on the textbook, but we will also examine several additional case studies to broaden the perspective of the course.

Evaluation: Term Work 60% Final Exam 40%

Prerequisite: STAT 350, or consent of the instructor. Familiarity with some statistical computer package will be assumed.

Textbook: Cleveland, W.S. (1993) Visualizing Data. Hobart Press.

Instructor: Larry Weldon. weldon@sfu.ca TLX 10554.

Ph: 291-3667, or 943-7962(R)

Schedule: MWF 1130-1220. K 9500. First Meeting: Sep 7, 2005 There will be no tutorial in this course. Instructor's office hours will be posted.

Fall Semester, 2005.