Content of the Course

STAT 605 is a continuation of STAT 604. As in 604, the aim is to present algorithms to be used in analyzing data and to familiarize the student with several computing environments. Specific items to be covered include:

1. Algorithms in multivariate analysis.
3. Computer graphics.
4. Gibbs sampling.
5. C programming.
6. More advanced methods in S.
7. More advanced features of Unix.

Prerequisites

Knowledge of the topics covered in STAT 604.

Course Materials

There is no text for the course. There will be a series of handouts. I would urge people to purchase manuals for one or more of the computers languages that we use. Two other useful books are “Statistical Computing” by Kennedy and Gentle, Marcel Dekker, and “Handbook of Mathematical Functions” by Abramowitz and Stegun, a Dover paperback.

Determining the Course Grade

There will be two closed-book exams and a series of projects. Each of these two exams will be worth 20% of the grade and will cover algorithms primarily. There will also be a series of programming projects, worth a total of 60% of the grade.