STATISTICS 890
STATISTICAL GENETICS I

Spring 2002
DAY COURSE

Instructor: Jinko Graham

Course Description:

Mendelian genetic traits. Population genetics; Hardy-Weinberg equilibrium, allelic variation, population subdivision. Likelihood inference, information and power; latent variables and expectation-maximization (EM) algorithm. Pedigree relationships and gene identity. Meiosis and recombination. Linkage detection. Multipoint linkage analysis. Prerequisite: STAT 280 and STAT330, or permission of instructor.

Statistical Methods in Bioinformatics. Text: Ewens and Grant. Offered spring semester
Statistical Genetics II: Quantitative traits. Text: Lynch and Walsh

Related courses we'd like to offer:

Note that we need to make a case that there is sufficient interest for all these courses, including the current one, in order to have a chance to offer them. If you are interested, please let me or Brad McNeney know.

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester.

Revised November 2001