Stat 680A: Advanced Biostatistical Methods (Fall/2013)

Instructor: Dr. Kung-Jong Lui, GMCS-509, e-mail: kjl@rohan.sdsu.edu

Class Hours: Tuesday and Thursday 9:30AM-10:45 AM

Office Hours: Tuesday and Thursday, 8:30 AM-9:30 AM and 1:00PM-2:00 PM.


Reference book:

Course Grade: Grades are given on the basis of

1. Term Projects: 30%,

2. Two quizzes, 20%

   and

3. A Final Exam, 50%.

Course Outlines:

This course will cover the basic probability concept, the estimation of various epidemiological measures, including risk difference, risk ratio, odds ratio, attributable risk, etc., the Bayes theorem, the evaluation of a screening test, the Fisher's exact test, the two-sample proportion test, sample size determination, cross-sectional studies, cohort and case-control studies, the analysis of matched data, comparison of sample proportions for several independent samples, Mantel and Haenszel summary test, the test of homogeneity of measure of association across a series of fourfold tables, and conditional maximum likelihood test.