

STA 3813 Fall 2000
Discrete Data Analysis and Bioassay
Time: TR 3:30 - 4:45 pm, Room: HSS 3.04.28

Instructor: Dr. Ming-Ying Leung
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Office Hours: TR 10:30 am - 12 noon, or by appointment

Course Objectives: To introduce statistical methods for analyzing categorical data and quantifying drug response which are useful for assessment of medical treatments.

Scope: This course will introduce methods for analyzing count data, two- and three- way contingency tables, probit analysis, logistic regression, and some basic techniques in bioassays.

Text: An Introduction to Categorical Data Analysis by Alan Agresti.

Prerequisite: STA 1993 or STA 3523 (concurrent enrollment in STA 3523 is acceptable).

Syllabus:

Chapter 1	Introduction
Chapter 2	Two-Way Contingency Tables
Chapter 3	Three-Way Contingency Tables
Chapter 4	Generalized Linear Models
Chapter 5	Logistic Regression

Bioassay - material will be taken from the book by J.J. Hubert

Software: PC SAS.

Grading: There will be 10 homework assignments, at least 10 class exercises, two in class tests, and a final exam. They will contribute to your overall grade according to the following percentages.

Homework:	20%	(Due in class every Tuesday except on test dates)
Class exercises:	10%	(Group work in class)
Test I:	20%	(In class Thursday, 10/5)
Test II:	20%	(In class Thursday, 11/9)
Final Exam:	30%	(Friday, 12/15, 10:30 am - 1:15 pm)

NO MAKEUP EXAM will be given except for emergency or medical reasons. In such cases, the student should submit a written request accompanied by official documents to arrange for a makeup test. **Overdue assignments** will only be accepted for a good reason. However, the instructor reserves the right to discount part or all of the credit for any late homework.

LAST DAY TO DROP an individual course is 10/27. After this date, no individual course can be dropped without withdrawing from the University.

