



STAT 402

Generalized Linear and Nonlinear Modelling

Spring 2011
Day Course

Students requiring accommodations as a result of a disability, must contact the Centre for Students with Disabilities 778-782-3121 or csdo@sfu.ca

Instructor: [Dr. Leilei Zeng](#)

Prerequisite:

STAT 350

(3rd edition) by: A.J.Dobson; published by Chapman & Hall. (on three-day reserve in Bennett ; 1h [(irTh)-7()1()])TJ 0EMC /P0e (Outline:)

1. Theory of generalized linear models: the exponential family, link function, iteratively reweighted least-squares estimation
2. Models for particular types of outcomes: binary, categorical and count data
3. Goodness-of-fit and model selection
4. Overdispersion and quasi-likelihood

ading Scheme:

Assignments – 40%
Midterm – 20%
Final – 40%

Students should be aware that they have certain rights to confidentiality concerning the collection of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic Honesty is a cornerstone of the acquisition of knowledge. Scholarly integrity is required of all members of the University. Please consult the General Guidelines of the calendar for more details.

Revised October 2010