



STAT 350

Linear Models in Applied Statistics

Fall 2008
Day Course

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Instructor: Gaitri Yapa

Prerequisite:

STAT 285 and MATH 251

Textbook:

Applied Linear Statistical Models (w/student CD) (5th Edition) by Kutner, Nachtsheim, Neter, Li. Publisher: McGraw-Hill/Irwin

Calendar Description:

Theory and application of linear regression. Normal distribution theory. Hypothesis tests and confidence intervals. Model selection. Model diagnostics. Introduction to weighted least squares and generalized linear models. **Quantitative**

Outline:

1. Linear models: Definition, simple and multiple linear regression models, ANOVA models. Incorporating different types of predictor variables and their interac