STAT 285-3
Intermediate Probability and Statistics

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

Instructor: Scott Pai (Surrey Campus)

Prerequisite:

STAT 270. Prerequisite or corequisite MATH 232 or MATH 240. This course may not be taken for credit by students who have credit for STAT 330 prior to Fall 2003

Textbook:

Probability and Statistics for Engineering and the Sciences (8th ed.) by Jay L. Devore. Publisher: Duxbury Press

Calendar Description:

This course is a continuation of STAT 270. Review of probability models, procedures for statistical inference from survey results and experimental data. Statistical model building. Elementary design of experiments and regression methods. Introduction to categorical data analysis. **Quantitative.**

Outline:

1. Review of STAT 270 material and relationship to this course
2. Statistical Models
3. Parameter estimation - least squares and likelihood methods
4. Hypothesis tests
5. Introduction to Regression Analysis - simple and multiple
6. Analysis of Variance
7. Introduction to lifetime analysis
8. Introduction to time series: ARIMA models, estimation, forecasting, confidence interval

Grading Scheme:

Homework Assignments – 15%
Two Midterms – (20% each)
Final – 45%
Grading is subject to change.

Students looking for a Tutor should send an email to stat@sfu.ca with "Tutor Request" in the subject line. Please only include information that you would like forwarded to our tutors mailing list.

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