

FALL 2014 - STAT 285 D900

INTERMEDIATE PROBABILITY AND STATISTICS (3)*Delivery Method: In Person***COURSE TIMES + LOCATION:**

Tu 1:30 PM – 2:20 PM

SUR 3090, Surrey

Th 12:30 PM – 2:20 PM

SUR 3090, Surrey

EXAM TIMES + LOCATION:

Dec 5, 2014

12:00 PM – 3:00 PM

SUR 5280, Surrey

INSTRUCTOR:

Richard Lockhart

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778-782-3264

Office: SC-K 10549

PREREQUISITES:

Prerequisite: : STAT 270. Prerequisite or corequisite MATH 232 or MATH 240.

Description

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. This course may not be taken for credit by students who have credit for STAT 330 prior to Fall 2003. Quantitative.

COURSE DETAILS:**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

Computing Requirement:

This course will have a mandatory computing component using R and JMP. We will also use the Top Hat Classroom response system; see tophat.com. The department will be picking up the cost this year but the system will be required; a cell phone with texting or a smart phone or a tablet or a computer will be needed.

Grading

Top Hat Questions (5% for participation, 5% for correct answers)	10%
Homework Assignments	10%
Midterm	25%
Final	55%

NOTES:

All grading is subject to change.

Materials

REQUIRED READING:

Required Textbook:

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

DEPARTMENT UNDERGRADUATE NOTES:

Students with Disabilities:

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

Tutor Requests:

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 (contains people external to the University). We accept no responsibility for the consequences of any actions taken related to tutors.

REGISTRAR NOTES:

SFU's Academic Integrity web site <http://students.sfu.ca/academicintegrity.html> is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. <http://www.sfu.ca/policies/gazette/student/s10-01.html>

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