

FALL 2014 - STAT 430 D100

STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS (3)*Delivery Method: In Person***COURSE TIMES + LOCATION:**

Tu 2:30 PM – 4:20 PM

AQ 3003, Burnaby

Th 2:30 PM – 3:20 PM

AQ 3003, Burnaby

EXAM TIMES + LOCATION:

Dec 6, 2014

3:30 PM – 6:30 PM

AQ 3149, Burnaby

INSTRUCTOR:

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Office: SC-K 10569

PREREQUISITES:

Prerequisite: : STAT 350 (or MATH 372).

Description

CALENDAR DESCRIPTION:

An extension of the designs discussed in STAT 350 to include more than one blocking variable, incomplete block designs, fractional factorial designs, and response surface methods. Quantitative.

COURSE DETAILS:**Outline:**

1. Ideas in design and analysis of experiments.
2. Statistical and design concepts. Experiments, sampling, observational studies, natural experiments.
3. Completely randomized designs, single treatment factor.
4. Blocking in Experiments.
5. Factorial designs and applications.
6. Fractional factorial designs with randomization restrictions
7. If time permits, response surface methodology.

Grading

Assignments	20%
Midterm	30%
Final	50%

NOTES:

All grading is subject to change.

Materials

REQUIRED READING:**Required Textbook:**

Design and Analysis of Experiments (8th ed.) by Douglas C Montgomery. Publisher: Wiley

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:

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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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