

FALL 2017 - STAT 430 D100

STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS (3)*Class Number: 3531 Delivery Method: In Person***COURSE TIMES + LOCATION:**Tu 2:30 PM – 4:20 PM
SECB 1012, BurnabyTh 2:30 PM – 3:20 PM
ASB 10900, Burnaby**EXAM TIMES + LOCATION:**Dec 14, 2017
8:30 AM – 11:30 AM
AQ 3003, Burnaby**INSTRUCTOR:**Derek Bingham
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1 778 782-3426
Office: SC-K10569**PREREQUISITES:**

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. Design principles
2. Completely randomized designs
3. Randomized block designs
4. Blocking in more than one direction: Latin squares and more
5. Factorial designs
6. Confounding
7. Fractional factorial designs

Grading

Assignments	20%
Midterm	30%
Final	50%

NOTES:***Above grading is subject to change.***

Materials

REQUIRED READING:

Required Textbook:

Design and Analysis of Experiments, 2nd ed. by Angela Dean, Daniel Voss and Danel Draguljic. Publisher: Springer.

Book is available **on-line** through the SFU Library

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 visit <http://www.stat.sfu.ca/teaching/need-a-tutor-.html>. 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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