

STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS (3)

Class Number: 3448 Delivery Method: In Person

COURSE TIMES + LOCATION:

Tu 2:30 PM – 4:20 PM
BLU 11901, Burnaby

Th 2:30 PM – 3:20 PM
BLU 11911, Burnaby

EXAM TIMES + LOCATION:

Dec 12, 2015
3:30 PM – 6:30 PM
Burnaby

INSTRUCTOR:

Derek Bingham
dbingham@sfu.ca
778-782-3426
Office: SC-K10569

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. Principles in design and analysis of experiments.
2. Statistical and design concepts and planning.
3. Designs with one source of variation. Completely randomized designs, single treatment factor, contrasts and multiple comparisons.
4. Experiments with more than one factor.
5. Blocking in Experiments.
6. Other designs with randomization restrictions.
7. If time permits, fractional factorial designs.

Grading

| | |
|-------------|-----|
| Assignments | 20% |
| Midterm | 30% |

NOTES:

All grading is subject to change.

Materials

REQUIRED READING:

Required Textbook:

Design and Analysis of Experiments by Angela Dean & Daniel Voss. Publisher: Springer

(NOTE: Electronic edition available through 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 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>

ACADEMIC INTEGRITY: YOUR WORK, YOUR SUCCESS