

FALL 2018 - STAT 430 D100

**STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS (3)**

Class Number: 3028 Delivery Method: In Person

**COURSE TIMES + LOCATION:**

Tu 2:30 PM – 4:20 PM  
WMC 2202, Burnaby

Th 2:30 PM – 3:20 PM  
SWH 10061, Burnaby

**EXAM TIMES + LOCATION:**

Dec 5, 2018  
3:30 PM – 6:30 PM  
AQ 3153, Burnaby

**INSTRUCTOR:**

Gamage Perera  
[gperera@sfu.ca](mailto:gperera@sfu.ca)  
778.782.9975  
Office: SC-K10557

**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

**RECOMMENDED READING:****Recommended Textbook:**

***Design and Analysis of Experiments, 9th 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 Accessible Learning 778-782-3112 or [csdo@sfu.ca](mailto: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>

ACADEMIC INTEGRITY: YOUR WORK, YOUR SUCCESS