

## INTERMEDIATE PROBABILITY AND STATISTICS (3)

Class Number: 4655 Delivery Method: In Person

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### COURSE TIMES + LOCATION:

Tu 2:30 PM – 4:20 PM  
SUR 5140, Surrey

Th 2:30 PM – 3:20 PM  
SUR 5140, Surrey

### EXAM TIMES + LOCATION:

Dec 7, 2016  
3:30 PM – 6:30 PM  
SUR 3170, Surrey

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### INSTRUCTOR:

David Campbell  
dac5@sfu.ca  
1 778 782-3730  
Office: 2911 Surrey

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### PREREQUISITES:

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

## Description

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### 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. 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

## Grading

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|----------------------|-----|
| Homework Assignments | 10% |
| Midterm              | 30% |
| Final                | 60% |

### NOTES:

***All grading is subject to change.***

## Materials

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### REQUIRED READING:

#### **Required Textbook:**

***Probability and Statistics for Engineering and the Sciences (9th ed.)*** by Jay L. Devore. Publisher: Duxbury Press

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### 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](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.

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### 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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