

SPRING 2015 - STAT 270 C100

INTRODUCTION TO PROBABILITY AND STATISTICS (3)*Class Number: 2816 Delivery Method: Distance Education***COURSE TIMES + LOCATION:**

Distance Education

EXAM TIMES + LOCATION:

Mar 6, 2015

7:00 PM – 9:00 PM

BLU 9660, Burnaby

Apr 21, 2015

3:30 PM – 6:30 PM

AQ 5016, Burnaby

COREQUISITES:

Corequisite: : MATH 152 or 155 or 158. Students wishing an intuitive appreciation of a broad range of statistical strategies may wish to take STAT 100 first.

Description

CALENDAR DESCRIPTION:

Basic laws of probability, sample distributions. Introduction to statistical inference and applications. Quantitative.

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

STAT 270 Introduction to Probability and Statistics

Spring 2015

Credits: 3

Section: C100

Course Description:

This is one of the first courses in probability and mathematical statistics: Basic laws of probability, sample distributions, introduction to statistical applications.

The course consists of the following general topics:

1. Introduction to descriptive statistics
2. Concepts of probability and tools for calculating probability
3. Discrete distributions: Variables, expectations and Binomial and Poissons distributions
4. Continuous distributions: Normal, gamma, and exponential distributions, normal approximation to Binomial distribution, jointly distributed random variables, the central limit theorem
5. Inference: Single samples-estimation, hypothesis testing
6. Inference: Two samples-normal, large samples, and paired cases

Requisite:

Corequisite: MATH 152 or 155 or 158. Students wishing an intuitive appreciation of a broad range of statistical strategies may wish to take STAT 100 first. Quantitative.

Textbook:

- Swartz, Tim. *INTRODUCTION TO PROBABILITY AND STATISTICS*. (CUSTOM) Pearson Education

Textbook(s) are available for purchase from the SFU Burnaby Bookstore approximately 3 weeks prior to the start of classes, either in person or online through the SFU Bookstore [eService](#).

Course Material:

All Course Materials Available Online on the First Day of Classes.

Fees:

- [Course materials & service fee](#) \$40.00 CAD

Delivery Method:

- [Canvas](#)

Course Requirements:

Assignment/Exam	Percentage
Assignment 1	5%
Assignment 2	5%

Assignment 3	5%
<u>Mid-term Exam</u>	30%
<u>Final Exam</u>	55%

Requirements Notes:

To pass the course, you must pass the final exam. Student must pass the term components (assignments and midterm) as a necessary condition for passing the course.

Please note: Students requiring accommodation as a result of a disability must contact the Centre for Students with Disabilities at 778-782-3112 or csd_office@sfu.ca.

Students are responsible for following all exam policies and procedures (e.g., missing an exam due to illness) [available here](#).

This course outline was accurate at the time of publication but is subject to change. Please check your course requirements carefully when your class starts.