

SPRING 2021 - STAT 270D100

## INTRODUCTION TO PROBABILITY AND STATISTICS (3)

**Class Number: 3317 Delivery Method: In Person**

## COURSE TIMES:

Mo, We, Fr 9:00 AM - 10:00 AM

REMOTE LEARNING, Burnaby

## EXAM TIMES + LOCATION:

Apr 28, 2021

12:00 PM - 3:00 PM

REMOTE LEARNING, Burnaby

ingham  
am@sfu.ca

## PREREQUISITES:

or 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.

## COURSE DETAILS:

**A**

1. Introduction to graphical and numerical descriptive statistics including the histogram, boxplot, scatterplot, sample mean, sample median, sample standard deviation, sample coefficient of relative variation, and sample correlation coefficient.
2. Elementary probability rules, basic combinatorial formulae, conditional probability, Bayes' Theorem, and independence.
3. Introduction to discrete distributions including the probability mass functions, expectation, the binomial distribution, and the Poisson distribution.
4. Introduction to continuous distributions including the probability density function, expectation, variance, coefficient of variation, the cumulative distribution function, uniform distribution, gamma distribution, exponential distribution, normal distribution, normal approximation to the binomial distribution, jointly distributed random variables, and the distribution of the sum of independent random variables.



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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:

**A A**

SFU's Academic Integrity web site <http://www.sfu.ca/students/academicintegrity.html> is filled with information on what is meant NT