

STAT 270: Statistical Inference

Class Number: 2799 Delivery Method: In Person

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**COURSE TIMES + LOCATION:**

Mo, We, Fr 9:30AM– 10:20AM  
AQ 3181, Burnaby

**EXAM TIMES + LOCATION:**

Apr 20, 2015  
3:30 PM– 6:30 PM  
AQ 3181, Burnaby

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**INSTRUCTOR:**

Tim Swartz

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Office: SCK 10539

**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.

STAT 270

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**CALENDAR DESCRIPTION:**

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

**COURSE DETAILS:**

Lab Instructor: Robin Insley

Outline:

1. Introduction to graphical and numerical descriptive statistics including histogram, boxplot, scatterplot, sample mean, sample median, sample standard deviation and sample correlation coefficient.
2. ~~Elementary probability rules, basic combinatorial formulae, conditional probability and independence.~~
3. Introduction to discrete distributions including probability mass function, expectation, binomial distribution and Poisson distribution.
4. Introduction to continuous distributions including probability density function, expectation, cumulative distribution function, uniform distribution, gamma distribution, exponential distribution, normal distribution, normal approximation to the binomial distribution, jointly distributed random variables, statistics and their distributions, Central Limit Theorem.
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Midterm 1

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Midterm 2

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Midterm 3

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Midterm 4

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Final E