This course may be applied to the Certificate of Liberal Arts

Instructor: Scott Pai(Burnaby)
Instructor: Dr. Dave Campbell (Surrey)
Lab Instructor: Robin Insley

Prerequisite:

30 units. Students with credit for STAT 101, 102, 203 (formerly), 102370 (formerly MATH 272) or 301 may not take STAT 201 for further credit. Intended to be particularly actes to students who are not specializing in Statistics.

Textbook:

The Basic Practice of Statistics, 5th Edition David S. Moore, W.H. Freeman Publishers
The textbook package is available at &FU Bookstore. Alternate Istudent may purchase the online text and resources (StatsPortal) at the Freeman webshittep://www.bfwpub.com/

Calendar Description:

Research methodology and associated statistical anadybirsiques for studentwith training in the life sciencesQuantitative

Outline:

Aimed at a non mathematical audience, this course discussed unes that are most commonly used in the summary of statistical surveys and in the interpretation of experimental delither STAT 101 or STAT 201 is a satisfactory prerequisite STAT 302. This course will cover all 24 chapters the Moore (5th edition) text excluding chapters 12, 20 and 21

- 1. Data summaries and displaysGraphical displays, measures of centradtency, measures of dispersion, percentiles, the normal curve, computer generated graphs and data summaries.
- 2. Summarizing the relationship between variablesScatter plots, the regression line, correlation, and causation.
- 3. Basic probability calculations: The addition and multiplication rules, and independence.
- 4. Distributions for count data: The binomial and Poisson distributions; whethey arise, and their basic properties.
- 5. Hypothesis tests and confidence intervalsp-values, confidence levels, and interpretation; inferences on a proportion and a mean based on the data normal and t-distributions, underlying assumptions, and a mention of alternatives.
- 6. Comparing two treatments: Completely randomized and paired designssociated standard normal and t-tests.
- 7.