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INTRODUCTION TO STATISTICS FOR THE SOCIAL SCIENCES (3)

Class Number: 2483 Delivery Method: In Person

Mo 9:30 AM - 10:20 AM AQ 3003, Burnaby

We 9:30 AM- 10:*2*0 AM AQ 3159, Burnaby

Fr 9:30 AM - 10:20 AM AQ 3159, Burnaby Aug 9, 2017 3:30 PM - 6:30 PM SSCK 9500, Burnaby

## Gamage Perera

Recommended: a research methods course such as SA 255, CRIM 220, POL 213 or equivalent is recommended prior to taking STAT 203.

Descriptive and inferential statistics aimed at students in the social sciences. Scales of measurement. Descriptive statistics. Measures of association. Hypothesis tests and con idence intervals. Students in Sociology and Anthropology are expected to take SA 255 before this course. Intended to be particularly accessible to students who are not specializing in Statistics. Students with credit for any of STAT 101, 201, 270, ARCH 376 or BUEC 232 may not subsequently receive credit for this course. Quantitative.

This course may be applied to the Certi icate in Liberal Arts

## Lab4noitayincirtsMarie Loughin

Software: The SPSS statistical software package will be used for assignments and output interpreted on exams

## Outline:

This course covers Chapters 1-12, 14-22, and 24-27 of the textbook. Chapters 7, 11, 19, and 24 are section reviews (and thus are optional). Details of the other chapters are as follows:

- 1. Descriptive Statistics (Chapters 1, 2, and 4 of text) Basic graphical statistics (e.g. bar graphs, pie charts, histograms, time plots, scatterplots) and basic numerical statistics (e.g. mean, median, mode, quartiles, standard deviation, correlation) are discussed. Scales of measurement are distinguished (e.g. nominal, ordinal, ratio and interval).
- 21) Probability (Chapters 3, 12, and 14 of text) The normal and binomial distributions are introduced along with probability rules.
- 3. Sampling (Chapter 8 of text) Variphysampliagolgsi grandukloadsionphiloanphobrsanaphishyirendianuksed. The implementation of sampling procedures is also presented.

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- 5. Data Ethics (Chapter 10 of text)
- 6. Inference (Chapters 15, 16, 17, 18) Concepts related to the construction of con idence intervals (e.g. sampling distributions, con idence level, width, interpretation, the effect of sample size) are discussed. Also basic concepts related to the testing of hypotheses (e.g. hypotheses, p-values, statistical signi icance) are presented.
- 7. Estimation and Testing for One Sample Problems (Chapters 20 and 22 of text) Procedures for means and proportions are discussed with an emphasis on the use of SPSS software and the interpretation of results.
- 8. Estimation and Testing for Two Sample Problems (Chapters 21 and 23 of text) Procedures for means and proportions are discussed with an emphasis on the use of SPSS software and the interpretation of results.
- 9. One Way ANOVA (Chapter 27 of text) One way analysis of variance procedures are discussed with an emphasis on inaplementationing SIPS/SIPS/Santimal the right hariout the indithial sate discussed with an emphasis on 5 2 lu gg
- 10. Chie Sequer estes (Charloteine: 6 ahthl? 5 se Sext) 6 roceduoes are discusses. Spts r(d thi/e

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