



## Introduction to Quantitative Analysis

Dr. Mebs Kanji, Associate Professor Kerry Tannahill, PhD Candidate Concordia University May 9-10, 2019 9:00am – 4:30pm

## **Summary**

This workshop is intended to introduce students to quantitative analysis in the social sciences. The topics to be covered include: the postulates of science, the scientific method, survey research, sampling, hypothesis-testing, concept operationalization, univariate analysis, bivariate analysis, inferential statistics, and measures of association. In this workshop you will have the opportunity to practice doing analysis for yourself. The workshop will be conducted in the lab and we will walk you through several analyses using SPSS.

If you are new to quantitative research or are looking for a refresher, this is the workshop for you.

## **Outline**

- I. Introduction
  - a. Postulates of science
  - b. The scientific method
  - c. What is survey research
  - d. What is sampling
- 2. The Basics
  - a. Concepts
  - b. Hypotheses
  - c. Univariate Analysis
- Digging Deeper
  - a. Bivariate Analysis
  - b. Inferential Statistics
  - c. Measures of Association
- 4. Drawing Conclusions
  - a. Introduction to Multivariate Analysis
  - b. Telling a story with your data

## **Required Readings\***:

Archer, Keith and Loleen Berdahl. Explorations: Conducting Empirical Research in Canadian Political Science (Second Edition). Don Mills, Ontario: Oxford University Press, 2011, chapters 1, 2, 3, 4, 8, 15, 16, 17, and 18.

\*FOR CREDIT STUDENTS: Book will be available in the Webster Course Reserve Room (3 hour loan)

