

**Carleton University**  
**The Department of Sociology and Anthropology**  
**SOCI 3002B Inferential Statistics in Social Research**  
**Course Outline: Winter 2025**

Instructor: Dr. Zhiqiu Lin  
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**Class and Computer Lab Times: 8:35pm - 11:25pm Tuesdays**

**Method of Delivery:** in person on Carleton University campus

**Prerequisites:** SOCI 3000 or CRCJ 3001 and third year standing.

**Course Description**

The purpose of this course is to provide students with an introduction to intermediary level statistical techniques for sociological data analysis. The course will focus on the theories and logics of inferential statistics, bivariate and multiple regression analysis and their applications in sociological research. Students will learn the course material through lectures, readings, problem solving and participation in the computer laboratory sessions. In each class, there are normally a two-hour lecture and a one-hour computer lab or tutorial. A major objective of the course is to give students a systematic understanding of the logic and reasoning of the inferential statistics and the "hands-on" computer experience in analyzing sociological data using the Statistical Package for the Social Sciences (SPSS). Students should be able to deal with the materials in this course if they attend all the lectures and computer labs, approach the assigned readings systematically, and are sure to ask questions on any points that puzzle them.

**Texts**

(1) Healey J., S. Prus and Lieflander, *Statistics, A Tool for Social Research*. Toronto: Nelson Education, 4th Canadian edition, 2018.

**Course Requirements and Methods of Evaluation**

(1) there will be three Assignments (value: 15% each; total value: 45%).

(2) Mid-Term Examination (value: 20%)

(3) Final Examination (value: 35%)