

**LAKEHEAD UNIVERSITY**  
**DEPARTMENT OF SOCIOLOGY**

***Sociology 3311 FDE***  
**Research Techniques & Data Analysis**  
**Dr. Jianye Liu**

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**Office Hours:** Tuesday & Thursday: 1:00PM-2:00PM or by appointment, Zoom

**Classes:** Monday & Wednesday: 10:00AM-11:30PM, Zoom

***Texts:***

One textbook is required. The approximate textbook costs are provided below and reflect current LU bookstore pricing (prices subject to change). The texts may be available from other sources at reduced prices.

Healey, J.F. & Steven G. Prus. 2019. *Statistics: A Tool for Social Research*, 5<sup>th</sup> Canadian Edition. Toronto, ON: Nelson Education Ltd (***LU bookstore prices: Print \$132.95 + tax; Ebook \$79.99 + tax***).

***Course Description:***

Sociology 3311 FA is the second part of the previous SOCI 3309 YA (a full year course) designed to provide students with a preliminary understanding of the skills and knowledge required to carry out quantitative data analysis. It includes the organization and presentation of data, measures of central tendency, measures of variability, percentiles and z-scores, the normal distribution, random sampling distributions, probability, and statistical inference. Computer techniques are limited to the creation of data files and statistical analysis using SPSS.

Students are expected to understand simple mathematical procedures and to own a calculator that has the capacity to perform square roots. Calculators and textbooks should be brought to all statistics classes.

***Courses requirements:***

**Class participation**

Participation includes asking questions, answering questions, discussing links to other things, and thinking about implications. It is important to come to class with some notes and reflections on the material. For each class, the instructor will take notes of the quality and quantity of participation of each student, and the extent to which this participation is based on the text having read in advance. The class participation accounts 10% of the final grade.

**Assignments**

An emphasis will be on the application of the many concepts and techniques covered in class and through the required readings in the textbooks. Through a series of 3 assignments accounting for 10% each of the final grade, students will have an opportunity to apply what they have learned and subsequently obtain some feedback. Each assignment will be marked and returned, some will be discussed in class, and students can always meet with the instructor to discuss possible difficulties or concerns.

### **Short tests**

There will be 2 short tests throughout the term. They will contain multiple choice and possibly short answer questions. These tests will be held on line and in the regular class time. The material covered between tests will be the major focus of each test, although the exact details will be specified clearly in class well before each test. **THE TWO TESTS WILL BE WORTH 30% OF YOUR FINAL GRADE.**

### **Final Examination**

The final examination will be on line and scheduled during the final exam period. It will be 3 hours in length and may have multiple choice, short answer problems and major problems. Students are responsible for the entire statistics portion of the course for the final examination. The final exam accounts for 30% of the final grade.

### **Distribution of Grades**

|                     |     |
|---------------------|-----|
| Class participation | 10% |
| 2 tests             | 30% |
| 3 assignments       | 30% |
| Final exam          | 30% |

### **Specific issues with online activities**

#### **(1) Copyright Compliance:**

I understand and agree that all instructional, reference, and administrative materials to which I am given access in this course (the "course materials"), whether they consist of text, still or kinetic images, or sound, whether they are in digital or hard copy formats, and in whatever media they are offered, are protected in their entirety by copyright, and that to comply with this copyright and the law.

(1) I may access and download the course materials only for my own personal and non-commercial use for this course; and

(2) I am not permitted to download, copy, store (in any medium), forward or share, transmit, broadcast, show, post or play in public, adapt, or change in any way any text, image, or sound component of the course materials for any other purpose whatsoever except as expressly authorized, and only to the extent authorized, in writing, by the course instructor.

I further understand and agree that, if I infringe the copyright of the course materials in any way, I may be prosecuted under the Lakehead University Student Code of Conduct – Academic Integrity, which requires students to act ethically and with integrity in academic matters and to demonstrate behaviours that support the University's academic values.

#### **(2) Exam/Assignment Integrity:**

I understand and agree that:

(1) Unless otherwise allowed by the course instructor, I must complete the assignments in this course without the assistance of anyone else.

(2) Unless otherwise allowed by the course instructor, I must not access any sources or materials (in print, online, or in any other way) to complete any course exam.

I further understand and agree that, if I violate either of these two rules, or if I provide any false or misleading information about my completion of course assignments or exams, I may be prosecuted under the Lakehead University Student Code of Conduct – Academic Integrity, which requires students to act ethically and with integrity in academic matters and to demonstrate behaviours that support the University's academic values.

### **Student Health and Wellness Launches New Resources to Support Mental Health**

## Thunder Bay

We are all experiencing a wide range of emotions as we near the fall semester- nervous, excited, anxious and everything in between.

Some of our students will struggle with their mental health as they adjust to our new modes of delivery and the ever-changing public health guidelines that will exist on our campuses.

Student Health and Wellness wants to be proactive in encouraging students to access support and we invite all Lakehead staff and faculty to work with us in reducing the stigma surrounding mental health concerns.

These resources are simple to use but can lead to a culture on campus where students seek help when it is needed. In addition to the following statements generated for staff and faculty members to consider using, Student Health and Wellness will continue to offer monthly [Students in Distress training sessions](#).

***Outline and schedule*** (the following schedule may be modified slightly throughout the term)

|                   |                                       |
|-------------------|---------------------------------------|
| September 3       | Introduction and Basic Math Operation |
| September 8       | Chapter 1                             |
| September 10      | Chapter 2                             |
| September 15 & 17 | Chapter 3                             |
| September 22      | Chapter 4                             |
| September 24      | Assignment #1 (Due Oct. 8)            |
| September 29      | Chapter 5                             |
| October 1         | Chapter 6                             |
| October 6         | Chapter 7                             |
| October 8         | Test #1                               |
| October 13-17     | Reading Week                          |
| October 20        | Chapter 8                             |
| October 22        | Chapter 9                             |
| October 27        | Chapter 9                             |
| October 29        | Assignment #2 (Due Nov. 17)           |
| November 3        | Chapter 10                            |
| November 5        | Chapter 11                            |
| November 10       | Test # 2                              |
| November 12       | Chapter 12                            |
| November 17 & 19  | Chapter 13                            |
| November 24       | Assignment #3 (Due Dec. 8)            |
| November 26       | Chapter 14                            |
| December 1        | REVIEW                                |

NB. The dates for class coverage of topics are only best approximations.