ECONOMICS 2613

**Empirical Analysis in Business and Economics 1**

### Fall 2021

**Instructor:** Xiaoting Wang

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**Office Hours:** Virtual through Microsoft Teams on Tuesdays and Thursdays 11:30am to 1pm, or by appointment.

# Course Description

This course aims to provide an introduction to empirical analysis in Economics and Business making extensive use of Microsoft Excel. Topics include both descriptive and inferential statistics, culminating in hypothesis testing and an introduction to regression analysis.

# Textbook (required, available at the bookstore)

Business Statistics: A First Course, by Levine, Szabat and Stephan, 8th edition.

(Non-credit practice questions will be assigned from each chapter of the textbook.)

# Grading

Final Exam 45% (to be scheduled by the Registrar’s office)

Midterm Exam 25% (Wednesday, November 3)

Surprise Quizzes 30%

Note that all quizzes and midterm exam are scheduled during class time. You are allowed to access Excel and Lecture Notes (ppt) during all exams and quizzes.

## Missed midterm or quizzes will not be made up for any reason. If you have a legitimate reason for missing a quiz, please speak to me about alternative arrangements.

**Special Accommodations**

*If you are a student with a documented disability who anticipates needing supports or accommodations, please contact Accessible Learning Services at 902-585-1291, or email* [*disability.access@acadiau.ca*](mailto:disability.access@acadiau.ca)*. Accessible Learning Services is located in Rhodes Hall.*

**Please note:**

**The last day to drop and receive a W is Friday, November 12.**

## A Brief Outline of Topics

**Introduction**

Why Learn Statistics?

Data Collection and Presentation

Numerical Descriptive Measures

**Probability Theory**

Basic Probability Concepts

Discrete Probability Distributions

Normal Distribution

**Sampling Distributions**

**Confidence Interval Estimation**

**Hypothesis Testing**

One-Sample Tests

**Simple Linear Regression**