ECONOMICS 2613

**Empirical Analysis in Business and Economics 1**

### Fall 2020

**Instructor:** Xiaoting Wang

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**Office Hours:** Virtual through Microsoft Teams on Tuesdays and Thursdays 10:30am to 12 noon, 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 (the 8th edition)

# Course Delivery

This course will be taught in Hybrid Scheduled format. Students will have the option of attending course components in the classroom or virtually (through Microsoft Teams) at the scheduled class time.

Note that all quizzes and midterm exam are scheduled during class time.

**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 13.**

# Grading

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

Midterm Exam 25% (Thursday, November 5)

5 Quizzes 30%

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

## Midterm exam and quizzes will be held in class. Exact time of each quiz will be announced in the previous class and through Acorn.

## 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.

**Exam Format**

All exams and quizzes will be online through Acorn, containing multiple-choice, short-answer, or problem-solving questions.

You are allowed to access Excel and Lecture Notes (ppt) during all exams and quizzes.

## 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**