

ECONOMICS 2613 A2  
**EMPIRICAL ANALYSIS IN ECON & BUSI 1**  
Winter 2019

INSTRUCTOR: Dr. Jun Zhao  
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OFFICE HOURS: Tuesday, Thursday:  
3:00 –4:00 am or by appointment

TIME: Monday, Wednesday  
at 2:30-04:00 pm  
CLASSROOM: BAC 239

### **Course Description**

This course is an introduction to the analysis of data in economics and business. Specific topics include both descriptive and inferential statistics, culminating in hypothesis testing and an introduction to regression analysis.

### **Textbook**

Statistics for Managers: Using Microsoft Excel 7<sup>th</sup> or 8<sup>th</sup> edition by Levine, Stephan et al (ISBN 978-0-13-306181-9).

### **Evaluation**

Unannounced In-Class Quizzes (4 @ 5% each), total 20%  
2 Term Tests @ 20% each (Test 1 Wednesday Jan 30, Test 2 Wednesday Mar 6), total 40%  
Final 40% (Date: TBA)

There will be no advance warnings for the quizzes. The quizzes will be based on the material (discussed) from previous lectures. There will be **NO** make-up for missed quizzes and/or tests. The marks for missed quizzes are **forfeited**. The weight of missed tests will be added towards your final exam. If you are a student with a documented disability who anticipates needing accommodations in this course, please inform me after you meet Kathy O'Rourke (902-585-1823) disability.access@acadiau.ca or Abu Kamara (902-585-1291) abu.kamara@acadiau.ca in Disability Access Services, Student Resource Centre.

### **Academic Ethics**

It is the responsibility of students to familiarize themselves with the University's policy on academic ethics. Copying, plagiarism and other academic offences will not be tolerated. Penalties are severe and may result in suspension from a program/course and expulsion. A complete list of Academic Regulations can be found on the Policies page of the University's website. I strongly recommend that all class members review the sections in the 2018-19 academic calendar dealing with Academic Policy and Regulations. It is a serious offence to engage in academic misconduct.

## **Topics to Be Covered**

1. Defining and collecting data
2. Presenting and manipulating data
3. Numerical descriptive measures
4. Various probability distributions
  - a. Basic probability concepts
  - b. The discrete probability distributions
  - c. The normal distribution and other continuous distributions
5. Sampling distributions
6. Confidence interval estimation
7. Hypothesis tests
8. Simple linear regression

## **How can you do well in this course?**

- Read the note ahead of time

All of the notes are available on Acorn. If you read the relevant chapter before the lecture, you will have a rough idea about what we are going to discuss.

- Come to class regularly

The ideas in this class are sequential. If you miss a lecture, you'll have a hard time understanding the rest of the course.

- Participate in class discussion

I will make sure you understand what we discussed in class by question relay, group competition and class discussion.

- Review course material and do related practice questions after class

Review course material and do related practice questions (from departmental workbook) each time after class, please don't wait until exam time.