ECON 2613 FA01 Empirical Analy in Econ & Busi 2022 Fall

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Course Outline

Core Information:

TIME: Mondays and Wednesdays at 1:00 – 2:25pm

CLASSROOM: BAC 234

INSTRUCTOR: Dr. Burç Kayahan

OFFICE LOCATION: BAC345

EMAIL ADDRESS: ckayahan@acadiau.ca

OFFICE HOURS: Virtual, by appointment

Course Description:

This course is concerned with the practical techniques of analysis common in Economics and Business. It covers topics such as descriptive statistics, an introduction to probability, and statistical inference which will include large and small sample hypothesis testing, one-way analysis of variance and regression analysis.

Course Objectives:

In today's world, which is becoming increasingly dependent upon quantitative information, an educated citizen must have a fundamental understanding of statistical tools. The purpose of 2613 is to introduce students to many of the important concepts and procedures they are likely to need in order to:

1. evaluate such daily inputs as organizational reports, websites, newspaper and magazine articles, and radio and television commentaries;
2. improve their ability to make better decisions over a wide range of topics;
3. improve their ability to measure and cope with changing conditions at home and on the job.

But the purpose of this course is not to make professional statisticians out of the students, because it is recognized that most Econ 2613 students will be consumers rather than producers of statistical information. Therefore, the emphasis has been rather placed on explaining the statistical procedures and interpreting the results obtained from these procedures.

We shall be making extensive use of the Microsoft EXCEL software in presenting tabular and graphical information, and in performing most of the actual statistical calculations. I will make every effort during class time to introduce and explain the important features of this software.

Required Materials:

- D. Levine, K. Szabat, D. Stephan, **Statistics For Managers Using Microsoft Excel:** 9th Edition, Pearson

- Departmental Workbook - Posted on Acorn

There are very minor differences between the new (9th) and previous (8th, 7th, 6th and 5th) editions, hence, you can also use the previous edition as a textbook for this course. Hence, the campus bookstore will carry a limited number of previous editions.

Evaluation:

Assignments (@ 5% each) **20%**

Assignment Dates:

- 1st Assignment: Handed out on the 14th of September, Due back on the 28th of September

- 2[nd]Assignment: Handed out on the 3rd of October, Due back on the 12th of October
- 3rd Assignment: Handed out on the 26th of October, Due back on the 9th of November
- 4th Assignment: Handed out on the 23rd of November, Due back on the 7th of December

Term Test 1 (**25%**) (Date: October 19th)
Term Test 2 (**25%**) (Date: November 21st)
Final **30%** (Date: TBA)

Each assignment is to be handed in via ACORN before the beginning of the lecture on the respective due date. Late assignments WILL NOT BE graded.

The date(s) of the assignments and tests **MAY BE SUBJECT TO CHANGE** depending on the pace at which the course material is covered in the lectures. If the date of a particular assignment or test is changed, it will be **announced in the lecture** prior to the initial deadline.

There will be NO make-up for missed assignments and/or term tests. If you are unable to write a test due to an illness or for compassionate reasons, **the weight of the missed test(s) will be shifted to the final exam**.

Accessible Learning:

Rooms 111-115, Rhodes Hall, 21 University Ave accessiblelearning.acadiau.ca

Accessible Learning Services works with students, staff, and faculty to facilitate academic accommodations and services for students with disabilities (permanent and temporary). Accommodations are based on the recommendations that are provided in students' psychoeducational or medical documentation. Accessible Learning Services also provides academic soft-skill development workshops for students, referrals to on-and-off campus resources, employment-readiness skill development and work placements, and educational awareness training. For more information about Accessible Learning Services' registration process and support services, please contact one of the staff members listed below or visit our website.

Accessible Learning Services Contact Information:
Marissa McIsaac, MSc; Manager, disability.access@acadiau.ca, 902-585-1290
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Gillian Hastey; Exam Coordinator, disability.access@acadiau.ca, 902-585-1823

Requirements:

I expect my students to attend classes in a regular and organized manner. **The first month is especially crucial** in developing a good understanding of statistics and its methodology.

Due to the quantitative nature of the course and time limitations, students will be expected to supply out-of-class preparation time by solving exercises in order to digest the information provided in the lectures. Only via solving a sufficient number of exercises you can truly understand and enjoy statistics.

The course website will be available via Acadia Courseware & Online Resource Network (ACORN) at http://acorn.acadiau.ca. Make sure to check this site every week for course-related materials and announcements that will be available as we progress throughout the course.

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 you review the Academic Integrity section of the Academic Calendar**. Engaging in **academic misconduct** has serious consequences.

Data Analysis and Statistical Software:

Students are assumed (and very much expected) to be able to use and access MS Excel at home, at school, or at work. Some problems are accompanied by the Excel data files (presented under a common folder), which enable students to apply techniques covered in the course to large blocks of data, solving problems using statistical software in a computer environment.

Important Notes:

Memorization of formulas and models will not produce good results in this course. The only way to learn statistics is by **DOING** exercises and **SOLVING** questions. The exercises in the departmental workbook are designed for precisely this purpose. You are encouraged (indeed, expected) to work through these independently.

Working through lots of examples provides the best means for developing an understanding of statistics and problem-solving skills. I would encourage you to first try doing exercises on your own and then go over them with a study partner so that you can help each other master the material.

Reading List:

1. **Presenting Data in Tables and Charts**, Chapter 2.

2. **Numerical Descriptive Measures**, Chapter 3.

3. **Basic Probability**, Chapter 4.

4. **Some Important Discrete Probability Distributions**, Chapter 5.

5. **The Normal Distribution and Other Continuous Distributions**, Chapter 6.

6. **Sampling and Sampling Distributions**, Chapter 7.

7. **Confidence Interval Estimation**, Chapter 8.

8. **Fundamentals of Hypothesis Testing: One-Sample Tests**, Chapter 9.

9. **Simple Linear Regression**, Chapter 13

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◀ Academic Integrity (Academic Calendar)

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