

# ECON 2613 B2 EMPIRICAL ANALY IN ECON & BUSI [2020-21]

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## Course Outline - ECON2613B2 Empirical Analysis in Economics and Business - Winter 2021

### Core Information:

**TIME:** Mondays and Wednesdays at 2:30 – 4:00pm **CLASSROOM:** BAC 132

**INSTRUCTOR:** Dr. Burç Kayahan

**OFFICE LOCATION:** BAC340

**OFFICE TEL:** (902) 585 14 92

**EMAIL ADDRESS:** [ckayahan@acadiu.ca](mailto:ckayahan@acadiu.ca)

**OFFICE HOURS:** 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 the 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\*\*](#)

The link for purchasing the E-text is given below:

[https://www.pearson.com/store/p/statistics-for-managers-using-microsoft-excel/P100002825976?format=E\\_TEXT](https://www.pearson.com/store/p/statistics-for-managers-using-microsoft-excel/P100002825976?format=E_TEXT)

- [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:

- 1<sup>st</sup> Assignment: Handed out on 25<sup>th</sup> of January, Due back on 8<sup>th</sup> of February
- 2<sup>nd</sup> Assignment: Handed out on 10<sup>th</sup> of February, Due back on 24<sup>th</sup> of February
- 3<sup>rd</sup> Assignment: Handed out on 3<sup>rd</sup> of March, Due back on 17<sup>th</sup> of March
- 4<sup>th</sup> Assignment: Handed out on 19<sup>th</sup> of March, Due back on 2<sup>nd</sup> of April

Term Test 1 (**25%**) (Date: March 1st, Via MS Teams)

Term Test 2 (**25%**) (Date: April 5th, Via MS Teams)

Final **30%** (Date: TBA)

**Each assignment is to be handed in class at the due dates. Late assignments WILL NOT BE accepted and will be graded as zero.**

**There will be NO make-up for a missed assignment and/or a test.** If you are unable to write an exam due to illness or for compassionate reasons, please advise me in writing (along with a doctor's note, if applicable) stating your name, your student id and an e-mail address where you may be contacted AT LEAST 2 days prior to the day of the exam. The weight of any missed test will be added towards your final exam.

Alpha grade	GPA value	Percentage range*	Rating
A+	4.33	90 – 100	
A	4	85 – 89	Excellent
A-	3.67	80 – 84	
B+	3.33	77 – 79	
B	3	73 – 76	Good
B-	2.67	70 – 72	
C+	2.33	67 – 69	
C	2	63 – 66	Average
C-	1.67	60 – 62	
D+	1.33	57 – 59	
D	1	53 – 56	Pass
D-	0.67	50 – 52	
F	0	0 – 49	Failure

## Accessible Learning:

Location: Rooms 111-115, Rhodes Hall, 21 University Ave

Email Contact: [accessiblelearning.acadiau.ca](mailto:accessiblelearning.acadiau.ca)

Accessible Learning Services works with students, staff, and faculty to facilitate academic accommodations and services for students with disabilities. All accommodations are based on the recommendations that are provided in students' psychoeducational or medical assessments. Accessible Learning Services also provide academic strategy sessions for students, referrals to on-and-off campus resources, 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, M.Sc; Disability Resource Facilitator, [disability.access@acadiau.ca](mailto:disability.access@acadiau.ca), 902-585-1520

Emily Duffett, MA; Accessibility Services Officer, [disability.access@acadiau.ca](mailto:disability.access@acadiau.ca), 902-585-1823

## Requirements:

I expect my students to attend the 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 all class members review the Academic Integrity section of the 2020-21 Academic Calendar on page 37.** It is a serious offence to engage in **academic misconduct**.

## Data Analysis and Statistical Software:

Students are assumed (and very much expected) to be able to use and access to Excel at home, at school, or at work. Some problems related to the data files are included on the CD-ROM packaged with the textbook that allows students to have the opportunity to apply chapter techniques to large blocks of data and use computers to solve problems.

## Important Notes:

Memorization of formula 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. **Two-Sample Tests**, Chapter 10
10. **Simple Linear Regression**, Chapter 13 (If there is a surplus amount of time left in the semester)

Last modified: Friday, 8 January 2021, 12:55 PM

◀ [A Course Load for the Game of Life](#)  
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