Welcome to Introductory Statistics for Economics.

Objectives: This course is an introduction to basic statistical methods for the study of economics. Topics include descriptive statistics, elementary probability theory, sampling distributions, estimation and hypothesis testing for one and two population parameters.

Prerequisites: ECON 1401 (or equivalent) with a grade of C- or higher; ECON 1402 (or equivalent), which may be taken concurrently with ECON 2210. Students who believe they have taken a similar background course or courses from another university must provide appropriate documentation to the Department of Economics Undergraduate Administrator, Amanda Wright.

Precludes additional credit for BIT 2000, BIT 2100 (no longer offered), BIT 2300 (no longer offered), ECON 2200 (no longer offered), ECON 2201 (no longer offered), STAT 2507, STAT 2606, and STAT 3502.

Qualification requirements for higher level courses: A grade of C- or higher is required to qualify for ECON 2220; a grade of C+ or higher is required to qualify for ECON 3900, 3920, 4002, and 4706.

The course consists of lectures three hours a week, tutorials one and a half hours a week.

Textbook

The required textbook for the course is:

10th edition, Pearson
Course Outline

● Topic I: Introduction and Descriptive Statistics
  Chapter 1: The Where, Why, and How of Data Collection
  Chapter 2: Graphs, Charts, and Tables-Describing Your Data
  Chapter 3: Describing Data Using Numerical Measures

● Topic II: Basic Probability and Important Distributions
  Chapter 4: Introduction to Probability
  Chapter 5: Discrete Probability Distributions (except for the discussion of the Hypergeometric Distribution in Section 5.3)
  Chapter 6: Introduction to Continuous Probability Distributions

● Topic III: Statistical Inferences Based on Samples
  Chapter 7: Introduction to Sampling Distributions
    Sections 7.1 and 7.2 only
  Chapter 8: Estimating Single Population Parameters
    Sections 8.1 and 8.2 only
  Chapter 9: Introduction to Hypothesis Testing
    Sections 9.1 and 9.3 only
  Chapter 10: Estimation and Hypothesis Testing for Two Population Parameters
    Sections 10.1, 10.2, and 10.3 only
  Chapter 11: Hypothesis Testing for One and Two Population Variances
    Section 11.1 only (and only this if time permits)

Data Analysis and Microsoft Excel

The students are assumed to be able to use and access to Excel at home, school, or work. Some problems related the data files included on the web page allow the students to have the opportunity to apply chapter techniques to large blocks of data and use a computer to solve the problems.

Grading Scheme

● The final grade will consist of the following elements weighted as shown:
  1. Three in-class midterm exams 15%, 20%, 25%, respectively
  2. Final exam 40%

● The first midterm examination will be held after finishing Chapter 3.
  The second midterm examination will be held after finishing Chapter 6.
  The third midterm examination will be held after finishing Chapter 8.

● There will be no deferred mid-term exams. If you miss a midterm exam due to an emergency or illness and provide proper documentation (Please give me the original copy in person!), the assigned weight will be added to the final exam. Otherwise you will receive zero marks for it.
A maximum of one missed midterm is permitted. As a result, a maximum weight of 65% will be given to the final examination.

The final examination will be a three-hour examination, scheduled by the Scheduling Office.

DEF(ferred final grade) status at the end of this course precludes (continued) registration in any other course for which the former is a prerequisite.

All midterms are closed book examinations and students are not allowed to bring in any materials.

For the final examination, students are allowed to bring in one 8½ ×11 inch page of paper with material of their own choosing written on one side. With the exception of the binomial distribution, tables will be provided for all the examinations.

The final exam will be cumulative and cover the entirety of the course material.

Satisfactory Performance Criteria: Students must fulfil all of the preceding course requirements in order to achieve a passing grade (D- or higher). Failure to write the final examination when the student has achieved satisfactory performance during the term will result in a grade of ‘F’ until an appeal to write the deferred final exam in February 2019, if granted by the Registrar’s Office. A change of grade will be submitted when the deferred final exam has been written and the marks are available. See Academic Regulation 2.3 for the official meanings of the grades, and note that it stipulates that no course grades are final until approved by the Faculty Dean. Application to write a deferred final examination must be made at the Registrar’s Office in writing no later than three working days after the original final examination was scheduled.

Tutorial Groups

Weekly tutorials will be conducted. The TA will show the students the applications of concepts and theories presented in classes step by step by using some examples.

Practice Problems

Students are encouraged to work through as many textbook problems as possible, since these are the best way to learn the course and prepare for the exams as well. Moreover, I will provide four sets of practice problems.

cuLearn and the Carleton email system will be used extensively as a means of communication with students. Therefore, students are strongly advised to access cuLearn and check their Carleton email at regular intervals in order to check for new information. To access cuLearn and the Carleton email system, students require a MyCarletonOne account. For questions about MyCarletonOne accounts, students should access http://carleton.ca/ccs/get-started/ (and then click on either New Students or New Grad Students, as appropriate) or contact the ITS Service Desk (4th Floor, MacOdrum Library, telephone: 613-520-3700).

Plagiarism: Please be aware that plagiarism is serious offense at Carleton and should be recognized and avoided. For further information on how to do so, please see
“Pammett on Plagiarism and Paraphrasing” at www.carleton.ca/economics/courses/writing-preliminaries.

**Requests for Academic Accommodation:** You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

**Pregnancy obligation:** Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wpcontent/uploads/Student-Guide-to-Academic-Accommodation.pdf

**Religious obligation:** Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

**Academic Accommodations for Students with Disabilities:** If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca PMC

If you have any problems and questions, please do not hesitate to ask me for help.