

ECON 2708 A – Applied Data Analysis

Department of Economics

Carleton University

Winter 2023

CONTACT INFORMATION

Instructor: Carolina Czastkiewicz

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Office Hours: TBD

Lectures: Tuesdays and Thursdays 10:05 AM–11:25 AM, NI 1020.

Tutorials: Tuesdays 8:35 AM–9:55 AM.

COURSE DESCRIPTION

An introduction to concepts and tools for using data to study applied economic problems. The course aims to increase students understanding of how various forms of data can offer insight into economic questions. Topics will include identifying relevant datasets, collecting and cleaning both research-ready and user-assembled data sets, data visualization, and summary statistics. In this course we will use Stata as our main software.

PRECLUSIONS and PREREQUISITES

Prerequisite(s): COMP 1005 with a grade of C- or higher; and ECON 1402 (or equivalent), with a grade of C- or higher; and ECON 2210 (or equivalent), with a grade of C+ or higher.

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, Renee Lortie.

COURSE DELIVERY

Lectures and tutorials will be in person.

TEXTBOOKS

There are no required textbooks for this course but here are is a useful reference for Stata-specific commands for data handling: **Michael N. Mitchell, Data Management Using Stata: A Practical Handbook, Stata Press, Second Edition, 2020.**

TUTORIALS

Tutorials will cover practice exercises of the concepts reviewed in class with alternative data sources. A successful outcome in this class will crucially depend on the amount of time you put into working with data.

OFFICE HOURS

Please review the class material and come with specific questions. All questions are welcome. If you cannot make my office hours or the TA's office hours, email me to schedule a different time/day.

EVALUATION

This course will not include exams since management of data cannot really be evaluated without asking you to work with a dataset. Hence, your performance will be evaluated based on five assignments of increasing difficulty and a final project that you will have to present by the last lecture. Each student's grade will be calculated using the following instruments and weights:

Instrument	Weight
Assignments (15% each)	75%
Final project	25%
Total	100%

Assignments: Each of the five assignments will ask you to work with a particular dataset which will be given to you or which you will have to download from a public source. The assignments will cover all the material seen in class from evaluating data sources to cleaning, analyzing and visualizing data. The deadline for each assignment will be announced at least one week in advance. Late assignments will not be accepted.

Final project: The final project will require you to find a data source to analyze using the concepts described in class. A full list of requirements and guidelines will be provided during the course.

Satisfactory Performance Criteria

Students must fulfill 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, 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.

REGRADING

Students seeking reappraisal of their graded work should contact the instructor within 2 weeks after they receive their grades.

PLAGIARISM

Please be aware that plagiarism is a serious offense at Carleton and should be recognized and avoided.

For further information on how to do so, please see "Academic Integrity and Offenses of Conduct" at

<https://carleton.ca/economics/courses/writing-preliminaries/academic-integrity-and-offer>

REQUESTS FOR ACADEMIC ACCOMMODATION

You may need special arrangements to meet your academic obligations during the term. For more details, visit the Equity Services website:

<https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf>

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.

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.

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. For more details, visit the Paul Menton Centre website <https://carleton.ca/pmc>.

Survivors of Sexual Violence

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit:

<https://carleton.ca/sexual-violence-support>

Accommodation for Student Activities

Carleton University recognizes the substantial benefits, both to the individual student and for the univer-

sity, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. 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 information on academic accommodation, please contact the departmental administrator or visit: students.carleton.ca/course-outline