

HURON UNIVERSITY COLLEGE

**ECONOMICS 3313E
RESEARCH METHODS
FALL/WINTER 2022-2023**

COURSE OUTLINE

Instructor: Dr. Özden Sungur
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Class Schedule: Tuesday 10:30-11:30am and Thursday 9:30-11:30am
Room: W106

Office hours: Tuesday 11:30am-12:30pm

Course Description: Economics 3313E is a full-year course designed to cultivate students' technical and quantitative abilities for applied economic research. First term will start with a review of linear regression techniques and their application to real-world problems. A number of nonlinear regression functions will also be discussed. The first part of the course will conclude with a discussion of issues pertaining to the assessment of econometric analysis based on multiple regression. The second portion of the course will introduce students to further topics in regression analysis.

Course Objectives: This course aims to help students to relate econometric theory to practice through use of real-world problems and data. By the end of this course, students should have good knowledge of the tools of regression analysis and the ability to apply them to economic data. They should be able to critically evaluate empirical research and be able to communicate research results through project reports as well as oral presentations.

Class Methods: The class time will be divided between a lecture and a computer lab component. Lectures will provide theoretical background on the topics while computer lab classes will focus on application of theory to real-world data using STATA statistical software.

Textbook: Stock, James H. and Mark W. Watson, Introduction to Econometrics (Fourth Edition), Addison-Wesley, 2019, (hereafter SW).

Software: STATA statistical software is available for use in Huron Computer Lab. Please note that the software used on university facilities is provided under license agreements with various vendors. Unless explicitly stated otherwise you must assume that all software on all systems is protected by copyright.

Evaluation: Assessment in the course will be based on:

Fall Term

Exam I: Thursday, November 10, 2022 - In class (20%)

Empirical Project I: Details will be provided later in class with a separate distribution.

Proposals due on Thursday, October 20, 2022 (10%)

Written report due on Thursday, December 8, 2022 (20%)

Winter Term

Exam II: Thursday, March 16, 2023 - In class (20%)

Empirical Project II: Details will be provided later in class with a separate distribution.

Proposals due on Tuesday, February 7, 2023 (10%)

Written report due on Thursday, April 6, 2023 (25%)

Tentative Course Schedule*:

Fall Term

Week 1	Course Introduction
Week 2	Linear Regression with One Regressor (SW Ch 4)
Week 3	Hypothesis Tests and Confidence Intervals: Regression with a Single Regressor (SW Chapter 5)
Week 4	Presentation on data resources available at Western Computer lab class on data search
Week 5	Linear Regression with Multiple Regressors (SW Chapter 6)
Week 6	Hypothesis Tests and Confidence Intervals: Multiple Regression (SW Chapter 7)
Week 7	Nonlinear Regression Functions (SW Chapter 8)
Week 8	Assessing Studies Based on Multiple Regression (SW Chapter 9)
Week 9	Fall Reading Week - No Classes
Week 10	Midterm I – Thursday, November 10, 2022
Week 11	Internal and External Validity (SW Chapter 9)
Week 12-14	Presentations

Winter Term

Week 1	Regression with Panel Data (SW Chapter 10)
Week 2	Fixed Effects Regression
Week 3	Regression with Time Fixed Effects
Week 4	Regression with a Binary Dependent Variable (SW Chapter 11) The Linear Probability Model
Week 5	Probit and Logit Regression
Week 6	Estimation and Inference in Probit and Logit Models
Week 7	Winter Reading Week - No Classes
Week 8	Instrumental Variables Regression (SW Chapter 12)
Week 9	IV Estimator - Single Regressor and Single Instrument General Instrumental Variables Regression Model Instrument Validity
Week 10	Midterm II – Thursday, March 16, 2023
Week 11-13	Presentations

*The course will follow approximately this schedule. This is tentative list of topics. Some topics may be added or deleted as the course progresses.



Appendix to Course Outlines: Academic Policies & Regulations Fall/Winter 2022

Pandemic Contingency

Huron will continue to follow the guidance of public health and government officials. It is anticipated that there will be no further disruptions to in-person instruction. This is subject to change.

Student Code of Conduct

Membership in the community of Huron University College and Western University implies acceptance by every student of the principle of respect for the rights, responsibilities, dignity and well-being of others and a readiness to support an environment conducive to the intellectual and personal growth of all who study, work and live within it. Upon registration, students assume the responsibilities that such registration entails. While in the physical or online classroom, students are expected to behave in a manner that supports the learning environment of others. Please review the Student Code of Conduct at: <https://huronatwestern.ca/sites/default/files/Res%20Life/Student%20Code%20of%20Conduct%20-%20Revised%20September%202019.pdf>.

Prerequisite and Antirequisite Information

Students are responsible for ensuring that they have successfully completed all course prerequisites and that they have not completed any course antirequisites. Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Attendance Regulations for Examinations

A student is entitled to be examined in courses in which registration is maintained, subject to the following limitations:

- 1) A student may be debarred from writing the final examination for failure to maintain satisfactory academic standing throughout the year.
- 2) Any student who, in the opinion of the instructor, is absent too frequently from class or laboratory periods in any course will be reported to the Dean of the Faculty offering the course (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean of that Faculty, the student will be debarred from taking the regular examination in the course. The Dean of the Faculty offering the course will communicate that decision to the Dean of the Faculty of registration.

Review the policy on Attendance Regulations for Examinations here: [Academic Calendar - Western University \(uwo.ca\)](#)

Statement on Academic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy,

specifically, the definition of what constitutes a Scholastic Offence, at the following website: [Academic Calendar - Western University \(uwo.ca\)](http://www.uwo.ca/academic_calendar) . The appeals process is also outlined in this policy as well as more generally at the following website:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/appealsundergrad.pdf.

Turnitin.com

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

Statement on Use of Electronic Devices

It is not appropriate to use electronic devices (such as, but not limited to, laptops, tablets, cell phones) in the classroom for non-classroom activities. Such activity is disruptive and distracting to other students and to the instructor, and can inhibit learning. Students are expected to respect the classroom environment and to refrain from inappropriate use of technology and other electronic devices in class.

Statement on Use of Personal Response Systems (“Clickers”)

Personal Response Systems (“clickers”) may be used in some classes. If clickers are to be used in a class, it is the responsibility of the student to ensure that the device is activated and functional. Students must see their instructor if they have any concerns about whether the clicker is malfunctioning. Students must use only their own clicker. If clicker records are used to compute a portion of the course grade:

- the use of somebody else’s clicker in class constitutes a scholastic offence
- the possession of a clicker belonging to another student will be interpreted as an attempt to commit a scholastic offence.

Academic Consideration for Missed Work

All students pursuing academic consideration, regardless of type, must contact their instructors no less than 24 hours following the end of the period of absence to clarify how they will be expected to fulfill the academic responsibilities missed during their absence. **Students are reminded that they should consider carefully the implications of postponing tests or midterm exams or delaying submission of work, and are encouraged to make appropriate decisions based on their specific circumstances.**

Students who have conditions for which academic accommodation is appropriate, such as disabilities or ongoing or chronic health conditions, should work with Accessible Education Services to determine appropriate forms of accommodation. Further details concerning policies and procedures may be found at: <http://academicsupport.uwo.ca/>.

Policy on Academic Consideration for a Medical/ Non-Medical Absence

- (a) Consideration on **Medical Grounds** for assignments worth *less than 10%* of final grade:
Consult Instructor Directly and Contact Academic Advising

When seeking consideration on **medical grounds** for assignments worth *less than 10%* of the final course grade, the student should contact the instructor directly. The student need only share broad outlines of the medical situation. The instructor **may** require the student to submit documentation to the academic advisors, in which case she or he will advise the student and inform the academic advisors to expect documentation. If documentation is requested, the student will need to complete and submit the [Student Medical Certificate](#). The instructor may **not** collect medical documentation. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation.

b) Medical Grounds for assignments worth 10% or more of final grade: Go Directly to Academic Advising

University Senate policy, which can be found at [Academic Calendar - Western University \(uwo.ca\)](#) requires that all student requests for accommodation on medical grounds for assignments worth 10% or more of the final grade be made directly to the academic advising office of the home faculty (for Huron students, the “home faculty” is Huron), with supporting documentation in the form (minimally) of the Senate-approved Student Medical Certificate found at:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf.

The documentation is submitted in confidence and will not be shown to instructors. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation. The instructor will not normally deny accommodation where appropriate medical documentation is in place and where the duration it describes aligns with the due date(s) of assignment(s). Before denying a request for accommodation on medical grounds, the instructor will consult with the Dean. The instructor’s decision is appealable to the Dean.

c) Consideration on Non-Medical Grounds: Consult Huron Support Services/Academic Advising, or email huronsss@uwo.ca.

Students seeking academic consideration for a **non-medical** absence (e.g. varsity sports, religious, compassionate, or bereavement) will be required to provide appropriate documentation. All consideration requests must include a completed [Consideration Request Form](#). Late penalties may apply at the discretion of the instructor.

Please review the full policy on Academic Consideration for medical and non-medical absence at: [accommodation medical.pdf \(uwo.ca\)](#). Consult [Huron Academic Advising](#) at huronsss@uwo.ca for any further questions or information.

Support Services

For advice on course selections, degree requirements, and for assistance with requests for medical accommodation, students should email an Academic Advisor in Huron’s Student Support Services at

huronsss@uwo.ca. An outline of the range of services offered is found on the Huron website at: <https://huronatwestern.ca/student-life/student-services/>.

Department Chairs, Program Directors and Coordinators are also able to answer questions about individual programs. Contact information can be found on the Huron website at: <https://huronatwestern.ca/contact/faculty-staff-directory/>.

If you think that you are too far behind to catch up or that your workload is not manageable, you should consult your Academic Advisor. If you are considering reducing your workload by dropping one or more courses, this must be done by the appropriate deadlines. Please refer to the Advising website, <https://huronatwestern.ca/student-life/student-services/academic-advising/> or review the list of official Sessional Dates on the Academic Calendar, available here: <http://www.westerncalendar.uwo.ca/SessionalDates.cfm>.

You should consult with the course instructor and the Academic Advisor who can help you consider alternatives to dropping one or more courses. Note that dropping a course may affect OSAP and/or Scholarship/Bursary eligibility.

Huron Student Support Services: <https://huronatwestern.ca/student-life/student-services/> Office of the Registrar: <https://registrar.uwo.ca/>
Student Quick Reference Guide: <https://huronatwestern.ca/student-life/student-services/#1> Academic Support & Engagement: <http://academicsupport.uwo.ca/>
Huron University College Student Council: <https://huronatwestern.ca/student-life/beyond-classroom/hucsc/>
Western USC: <http://westernusc.ca/your-services/#studentservices>

Wellness and Health Supports at Huron and Western

University students may encounter setbacks from time to time that can impact academic performance. Huron offers a variety of services that are here to support your success and wellbeing. All Huron staff and faculty have received training on responding to disclosures of Gender-Based Sexual Violence (GBSV); students should know that the Community Safety Office is a resource for survivors, providing support and, if desired, guidance while referring them to the further supports that they may require. Please visit <https://huronatwestern.ca/student-life-campus/student-services/wellness-safety> for more information or contact staff directly:

Wellness Services:

huronwellness@huron.uwo.ca Community

Safety Office: safety@huron.uwo.ca

Additional supports for Health and Wellness may be found and accessed at Western through, <https://www.uwo.ca/health/>.

Western Calendar - Policy Pages -

[Academic Calendar - Western University \(uwo.ca\)](#)