

ECONOMETRICS I
ECONOMICS EC2122A-001
Department of Economics
Western University

Summer 2022

General Information:

Instructor: Hans Martinez
Office: SSC 4064
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Office hours: Mondays, 10-12 pm. Office hours will be held online using Zoom.
Links will be posted on OWL

Delivery mode: Classes will be in-person

Meeting time(s): Tuesdays, 7-10 pm

Classroom: SSC XXXX

Course website: <https://owl.uwo.ca/portal>

Undergraduate inquiries: 519-661-3507 or SSC Room 4075 or econugrd@uwo.ca

Registration:

You are responsible for ensuring you are registered in the correct courses. If you are not registered in this course, the Department will not release any of your marks until your registration is corrected. You may check your timetable by using the Login on the Student Services website at <https://student.uwo.ca>. If you notice a problem, please contact your home Faculty Academic Counsellor immediately.

Prerequisite/Antirequisite Note:

The prerequisites for this course are Economics 1021A/B and Economics 1022A/B, or Economics 2001A/B, and one of MCV4U, Mathematics 0110A/B, Calculus 1000A/B, Calculus 1500A/B, or Mathematics 1225A/B. Also, note that this course cannot be taken concurrently with or prior to taking Data Science 1000A/B as they will become antirequisites to one another in these sequences.

You are responsible for ensuring that you have successfully completed all course prerequisites, and that you have not taken any anti-requisite courses. Lack of prerequisites may not be used as a basis for appeal. If you are found to be ineligible for a course, you may be removed from it at any time and you will receive no adjustment to your fees. This decision cannot be appealed.

If you find that you do not have the course prerequisites, it is in your best interest to drop the course well before the end of the add/drop period. Your prompt attention to this matter will not only help protect your academic record but will ensure that spaces become available for students who require the course in question for graduation.

The antirequisites for this course are Biology 2244A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2810, Psychology 2820E, Psychology 2830A/B, Psychology 2850A/B, Psychology 2851A/B, Social Work 2207A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, Statistical Sciences 2037A/B if taken prior to Fall 2010.

Course Description:

An introduction to econometric description and inference which covers descriptive statistics for cross-section and time-series samples, probability; probability distributions and random variables; estimators and sampling distributions; confidence intervals and tests of hypotheses; simple linear regression.

Course Objectives:

Economics 2122 is an introductory course in statistics with applications in economics and business. Statistics deals with collecting, analyzing, interpreting, and presenting empirical data. Thus, the main objective of this course is to train students in basic statistical techniques including descriptive and inferential statistics. Topics covered include probability theory, sampling distribution, and hypothesis testing.

Course Learning Outcomes:

After successful completion of Economics 2122A, students will be able to:

1. Represent economic relationships using graphical and mathematical methods.
2. Calculate and interpret probabilities.
3. Calculate and interpret probability distributions for discrete and continuous random variables.
4. Calculate and interpret confidence intervals and understand the process of hypothesis testing.
5. Make inferences about populations based upon quantitative analysis of sample data.

Textbook(s) and Course Materials:

- Newbold, Carlson and Thorne, *Statistics for Business and Economics* (8th Edition) Prentice Hall (2013).
- MyLab courseID: martinez37733

All quizzes will be assigned via the MyLab platform, during class. The access code may come packaged with the new textbook or can be purchased separately. Instructions to enroll [here](#).

Assessments and Grading

Five quizzes (7% each)	35%
Three assignments (5% each)	15%
Final exam (1 st week of August*)	50%

Course schedule

Class	Date	Topic	Book Chapters
1	May 10	Describing Data: Graphical	1
2	May 17	Describing Data: Numerical	2
3	May 24	Probability	3
4	May 31	Discrete Probability Distributions	4
5	June 7	Continuous Probability Distributions	5
6	June 14	Sampling Distributions	6
7	June 21	Estimation: Single Population	7
8	June 28	Estimation: Additional Topics	8
9	July 5	Hypothesis Testing: Single Population	9
10	July 12	Hypothesis Testing: Additional Topics	10
11	July 19	Simple Regression	11
12	July 26	Review	

Assignment schedule

Assignment	Chapters	Posting	Due date (before class)
1	1-3	May 17	May 31
2	4-7	June 14	June 28
3	8-11	July 12	July 26

Quiz schedule

Quiz	Chapters	Date (during class)
1	1-2	May 24
2	3-4	June 7
3	5-6	June 21
4	7-8	July 5
5	9-10	July 19

Notes:

Course scheduling dates are tentative and subject to change depending on university regulation. Further details will be provided on the course OWL website as the dates approach.

Assignments: Assignments are to be submitted on OWL. No assignments are going to be accepted after the due date. The assignments will require that students analyze, describe, and graph data. Students might use the software of their preference for estimations and graphing, but it is recommended to use R, Python or Stata. However, answers in Excel are also acceptable. Students can discuss assignments in groups, but each submission should be unique. Two identical submissions will be considered plagiarism, and both will be marked with zero.

Quizzes: All quizzes will be assigned via the MyLab platform. Quizzes will be taken during class, as scheduled above. We'll take 20 minutes of class to take the quiz. Quizzes will have a time limit of 15 minutes. Quizzes will be closed book and will consist of questions like the Sample tests and quizzes in MyLab.

Final exam: The two-hour final exam will test student's knowledge of the whole course and it will consist of multiple-choice questions. The exam will be closed book and the only external aid allowed is a non-programing, non-graphing calculator. Scrap paper will be provided. More details will be provided later as needed.

* The final exam will be scheduled by the Registrar's Office. The date will be announced once assigned.

Professionalism, Privacy and Copyright:

- Students are expected to follow the [Student Code of Conduct](#).
- All lectures and course materials, including slides, presentations, outlines, and similar materials, are protected by **copyright**. Students may take notes and make copies of course materials for their own educational purposes only.
- Students may not record lectures, reproduce (or allow others to reproduce), post or distribute lecture notes, assessments, or any other course materials publicly and/or for commercial purposes without written consent of the instructor.
- Recordings (audio or video) are not permitted without explicit, written permission of the instructor. Permitted recordings may not be distributed or shared.

Please Note
Department & University Policies for Summer 2022

The University expects all students to take responsibility for their own Academic Programs. Students should also check their registration to ensure they are enrolled in the correct courses.

1. **Guidelines, policies, and your academic rights and responsibilities** are posted online in the current Western Academic Calendar at: <http://westerncalendar.uwo.ca>. Claiming that “you didn’t know what to do” is not an acceptable excuse for not following the stated policies and procedures.
2. Students must familiarize themselves with the “**Rules of Conduct for Examinations**” http://www.uwo.ca/univsec/pdf/academic_policies/exam/administration.pdf.
3. **Cheating as an academic offence:** Students are responsible for understanding what it means to “cheat.” The Department of Economics treats cheating incidents very seriously and will investigate any suspect behavior. Students found guilty will incur penalties that could include a failing grade or being barred from future registration in other Economics courses or programs. The University may impose further penalties such as suspension or expulsion.
4. **Plagiarism:** Students must write their essays and assignments in their own words. When taking an idea/passage from another author, it must be acknowledged with quotation marks where appropriate and referenced with footnotes or citations. Plagiarism is an academic offence (see Scholastic Discipline for Undergraduate Students in the Western Calendar at http://westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20).

Western University uses software to check for plagiarism and students may be required to electronically submit their work. Those found guilty will be penalized as noted in point 3.

5. It is a Department of Economics policy that **NO** assignments be dated, stamped or accepted by staff. Students must submit assignments to the instructor.
6. **Appeals:** University policies and procedures for appealing a mark can be found in the Student Academic Appeals section in the current Western Academic Calendar at: http://westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_14. **Please note the relevant deadlines.**

Department of Economics procedures for appealing a mark can be found here: https://economics.uwo.ca/undergraduate/program_counselling/responsibilities_policies.html#appeals. The Department will not consider an appeal unless an attempt has been made to settle the matter with the instructor first. Students who remain dissatisfied with the outcome may proceed to submit an appeal to econugrd@uwo.ca. Please follow the instructions and use the appeal form shown in the above link.

7. **Systematic adjustments of a class grade distribution** (either up or down) can occur in Economics courses. The fact that grades have been adjusted is **not** grounds for an appeal.
8. Note the following **add and drop deadlines**:

Deadline to add a Summer Evening 12-week course:
Deadline to drop a Summer Evening 12-week course:

Friday May 13, 2022
Monday June 13, 2022

Policy Regarding Makeup Tests and Final Examinations

Faculty of Social Science policy states that oversleeping or misreading an exam schedule is NOT grounds for a makeup. This rule applies to midterm and final exams in the Department of Economics.

Policies Regarding Academic Accommodation

- The Faculty of Social Science's policies on academic accommodation are found at https://counselling.ssc.uwo.ca/procedures/academic_consideration.html
- **Accommodation for Students with Disabilities:** Students with disabilities or accessibility challenges should work with Accessible Education (formerly SSD, see http://academicsupport.uwo.ca/accessible_education/index.html), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: [Academic Accommodation for Students with Disabilities](#).
- **Rewriting Exams and Retroactive Reweighting are NOT Permitted:** Students who proceed to write a test or examination must be prepared to accept the mark. Rewriting tests or examinations, or retroactive reweighting of marks, is **not** permitted. Self-Reported Absences cannot be used once a student has proceeded to start to write a test or exam.
- **Self-Reported Absences:** Students will have one opportunity during summer term to receive academic consideration if they self-report a missed assessment using the online self-reported absence portal, provided the following conditions are met: the assessment is missed due to an absence of no more than 48 hours in duration, and the assessment for which consideration is being sought is worth 30% or less of the student's final grade. Students are expected to contact their instructors within 24 hours of the end of the period of the self-reported absence, unless noted otherwise on the syllabus. Students are not able to use the self-reporting option in the following circumstances:
 - for exams scheduled by the Office of the Registrar (e.g., final exams)
 - absence of a duration greater than 48 hours
 - assessments worth more than 30% of the student's final grade
 - if the student has opened or started the test or exam
 - if a student has already used the self-reporting portal twice during the fall/winter terms

If the conditions for a Self-Reported Absence are *not* met, students will need to provide a Student Medical Certificate (SMC) if the absence is medical or provide appropriate documentation if there are compassionate grounds for the absence in question. Students are encouraged to contact their Faculty academic counselling office for more information about the relevant documentation. It is strongly recommended that students notify the instructor as soon as possible, ideally before the assessment, when they become aware of an absence. University policy is that students must communicate with their instructors no later than 24 hours after the end of the period covered by the SMC or immediately upon their return from their documented absence. Failure to follow University policy and procedures may result in denial of academic accommodation and a grade of zero.

- **Self-Isolation Reporting Tool:** Students who are required to self-isolate due to COVID-19 should complete the Self-Isolation Reporting Tool (SIRT). By using this, students are attesting that they must self-isolate as a result of direction obtained from a COVID-19 Self-Assessment. The information entered on this tool will be used by Academic Counselling to assess your need for academic considerations. Students should note that this tool is intended for self-isolation due to COVID-19 only and those who complete this form will be expected to remain off-campus for at least five days. Students are expected to contact their instructors within 24 hours of the end of the period of their self-isolation period, unless noted otherwise on the syllabus.
- **Documentation for Accommodation:** Individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds or for other reasons. **All required documentation for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**
- **Western University policy on Consideration for Student Absence** is available here: [Policy on Academic Consideration for Student Absences - Undergraduate Students in First Entry Programs.](#)
- **Student Medical Certificate (SMC):** This form is available here: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf
- **Religious Accommodation:** Students should consult the University's list of recognized religious holidays and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if their course requirements will be affected by a religious observance. Additional information is given in the [Western Multicultural Calendar.](#)

Policy Regarding Class Attendance and Engagement: If the instructor deems a student's attendance or engagement in the class to be unsatisfactory, that student may be prohibited from writing the final examination. Examples of unsatisfactory class engagement include frequent absences from an in-person or synchronous online class, lack of assignment submissions, and inadequate use of online course materials. Instructors who intend to make use of this policy will notify the student in advance.

Statement on Mental Health and Support Services: Students under emotional/mental distress should visit https://uwo.ca/health/mental_wellbeing/ for more information and a complete list of resources on how to obtain help.

Statement on Remote Proctoring: While Western intends to hold most classes, mid-terms and finals in-person, the London-Middlesex Health unity may require western to teach in a remote format. If this occurs, all assessments will be done remotely and may involve the use of remote proctoring software (i.e., Proctorio, ProctorTrack). Instructors will provide information on the details should the need arise.