



**Econ2222A 570
Econometrics I
Summer 2026**

Instructor: Kristin Denniston
Email: kdennist@uwo.ca

Course Information

Mode of Instruction: Online Synchronous

Calendar Description:

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

Pre-requisite(s): Economics 1021A/B and Economics 1022A/B; 0.5 from Mathematics 1225A/B, Mathematics 1230A/B, Calculus 1000A/B, Statistical Sciences 1024A/B, and 0.5 from Mathematics 1229A/B, Mathematics 1600A/B, Calculus 1301A/B or Calculus 1501A/B.

Anti-requisite(s): All other courses in Introductory Statistics (except Statistical Sciences 1023A/B and Statistical Sciences 1024A/B): Biology 2244A/B, Economics 2122A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2811A/B, the former Psychology 2810, the former Psychology 2820E, Psychology 2830A/B, Psychology 2850A/B, Psychology 2851A/B, the former 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.

Extra Information: 3 lecture hours. Note: 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.

Course Weight: 0.50
Breadth: CATEGORY A
Subject Code: ECONOMIC

Notice: Unless you have either the requisites for this course (fulfilment of pre-requisites, no anti-requisite conflicts), or special permission from your Dean to enrol 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.

King's University College
ECO 2222A – 570
Econometrics I

Summer Intercession 2026

Course information:

Course: Econometrics I, ECO 2222A-570
Instructor: Kristin Denniston
Contact Information: kdennist@uwo.ca
Office hours: Th 8-9 pm (online)
Course times: T,Th 9:30-12:30 pm (online)

Course description:

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

Course learning outcomes:

At the end of this course students should be able to: (i) interpret tables, graphs, and statistics used for describing data; (ii) apply probability theory to model random variables; (iii) estimate population parameters using point and interval estimators; (iv) evaluate and describe the properties of an estimator; and (v) test theories about population parameters (determine an appropriate test statistic; implement a formal hypothesis test and interpret the outcomes).

Mode of Instruction: (*online synchronous*)

This course is taught synchronously online. It is expected that students will attend all lectures and labs. Teaching material and announcements will be updated weekly on OWL. It is your responsibility to check them regularly.

Textbook/materials:

- *Statistics for Business and Economics, P. Newbold, W. Carlson, and B. Thorne, Pearson publishing house, 8th edition. The permanent ebook is \$95.00. See UWO Bookstore Link on OWL site. Students need to use the 8th edition edition. Second-hand or older editions will not be sufficient.*
- Nonprogrammable scientific calculator (\$35 max cost or not permitted at final exam).
- Laptop or cellphone for in class activities and attendance quizzes
- R and R Studio and EXCEL
- Zoom or Teams in Student Microsoft 365 (Link to class lectures\Office hours on OWL.)
- A stable internet connection, a quiet space to take part in quizzes and lectures, and a computer with working microphone and/or webcam is required.

Method of evaluation:

The overall course grade will be calculated as listed below:

Method of evaluation (Dates are TENTATIVE):

- **Class Participation/Attendance Activities** (in-class labs, pop-up quizzes, etc.) **6%**
- **Homework** (Best 4 of 5. Due May16, May23, May30, Jun6, Jun13) **10%**
- **Quizzes** in Proctor track (Best 3 of 4. May21, May28 Jun4, Jun11) in class **24%**
- **Final** (TBA June 22-26 by registrar) **60%**
- Total = 100%

IMPORTANT NOTES:

- Dates are tentative. Refer to schedule on OWL.
- Students have **72 hours** after the due date to submit homework without penalty. After this grace period, the mark is 0.
- Quizzes, class activities, and homework will be largely handwritten or require R lab scripts.
- On the final, a score of 40% or higher is required to pass the course.

Academic Considerations:

- **Homework** (Best 3 out of 4)
 - Missed homework deadlines have built-in flexibility to submit without penalty 72 hours past the due date. There are no makeups or accommodations after this grace period. It is best to try and submit by the official due date.
- **Participation and attendance activity**
 - The participation grade component will be calculated as follows:
 - If a student participates in 80% or more class activities, they will receive full marks. There may be more than one activity per class.
 - If a student participates less than 80% of class activities, the clicker mark will decrease linearly using the formula: **Clicker mark = 6.25(y)**, where y is the proportion of all activities\clicker questions the student answered.
 - *For example, if you answer 70% of the activity questions, you will have $0.70 \times 6.25 = 4.375$ marks towards your participation / attendance grade component.*
 - Students may miss 20% of class activities and still receive the full mark. Because of this built-in flexibility, there are no makeups or accommodations for missed participation\attendance marks.
 - Pop-up quizzes may require answer accuracy to receive a mark.
 - Students who are participating with iClicker or Socrative AND are not present in-class (i.e., falsifying attendance and participation) will be warned and then automatically receive a grade of 0 for the class participation grade component.
 - *Students are responsible for ensuring they have a reliable device at each lecture.*
- **Quizzes**

- **Only the top 3 of 4 of the timed quizzes will count towards the quiz mark.**
Because of built-in flexibility, no accommodation will be made for a missed quiz. If a student misses more than one quiz, the weight of the additional missed quiz will require documentation and Academic Dean's Office approval to transfer the weight to the final.
- Both the instructor and Dean's office should be notified **within 48 hours** of the missed assessment or accommodation may not be considered. See the policy and weblinks listed in the King's Policy statements at the end of this outline.
- **Final Exam (in-person)**
 - **This course will administer its final exam in-person.**
 - By way of registering in this course, students are automatically registered to write their final exam in London. However, for an additional fee, students may opt-in to write at one of King's authorized testing centre locations in Toronto, Vancouver or Beijing. For those opting to write in Beijing, Toronto or Vancouver, you must register to write at those locations.
 - **For those opting to write in Beijing, Toronto or Vancouver**, you must register to write at those locations before **May 18**. Instructions with a link to the registration form are available on the front page of the course Brightspace site.
 - **Students who require accommodations** to write their exam will be supported in-person in London on campus. Accommodations cannot be made at our testing centers.
 - **Students need a score of 40% or higher on the final to pass the course.** If this mark is not achieved, the course mark will not exceed 49%.

Academic Integrity / Remote Proctoring:

- **Instructors reserve the right to seek additional clarification about any submitted work** (e.g. explain a solution and oral interview) as part of any assessment.
- The instructor may **reduce a grade** if a student cannot justify or defend their work.
- **Scholastic offences are taken seriously**, and students are directed to read the appropriate policy at the following Web site:
https://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_offences.pdf
- **Course policy on use of generative AI, including translation/grammar aids**
 - Within this course, use of generative artificial intelligence (AI) tools (such as ChatGPT, Claude, Gemini, co-pilot, translation tools, and grammar-checking tools) is not permitted for written work, quizzes or other assessments submitted for evaluation. Unauthorized use of AI will be subject to academic discipline.
- **Notice of Remote Proctoring**
 - Quizzes in this course will be conducted using Proctor Track remote proctoring service. By taking this course, you are consenting to the use of this software and

acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

- **Notice on Turnitin**
 - 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>).
- **Use of Electronic Devices**
 - Unless explicitly stated otherwise, you are not allowed to have a cell phone, watches, or any other electronic device, with you during quizzes or examinations. Only non-programmable calculators costing less than \$35 at Staples are permitted at exams. *If a student is caught with a prohibited electronic device at an exam, it is assumed that they are cheating.* The student will be reported and subject to academic sanctions.

Class Expectations

- "All assessments and examinations done online are expected to be done by the student registered in this course."
- All students are expected to engage online in a professional and respectful manner. This includes all interactions with peers, as well as communication between TAs or your Professor. Failure to do so will result in academic discipline and/or discipline under the Student Code of Conduct.
- **Recording or distribution** of lectures or tutorials without the explicit consent of the Professor or TA is grounds for academic discipline.
- **Course content created by a faculty member is the faculty member's** intellectual property; it should not be distributed, shared in any public domain, or sold by a student or other third party without prior written consent of the faculty member.

Email and Communication Policy

- "How to contact me: **Email is best:** kdennist@uwo.ca. I will try to return a response within 24-48 business hours (Monday to Friday, 9 am to 5 pm)."
- **Students must use their UWO email address.** Do not use personal email. Subject line must include course and section number and should include the topic of the email. Emails need to be respectful and concise listing the issue, what you have done to solve

it, and what you hope the faculty member can help you with; for example, to explain a concept, provide feedback, etc.

- **All course changes and updates will be communicated to students via the OWL course website**, so please *check OWL frequently*.
- There is a **weekly OWL announcement** posted on Mondays to help students keep up with deadlines and schedule adjustments. Students should read the announcements and monitor the OWL course site regularly to keep up with deadlines and adjustments.

Schedule of Classes, Readings, Assessments:

- *See the OWL course site for the current most up-to-date schedule.*
- *Tentative schedule*

Ch1: Describing Data Graphically

Ch 2: Describing Data Numerically

Ch 3: Introductory Probability

Ch 4: Discrete Random Variables

Ch 5: Continuous Random Variables (Normal Distribution etc.)

Ch 6: Sampling Distributions

Ch 7: Confidence Interval Estimation

Ch 9: Hypothesis Testing

Ch 11.1-11.4: Simple Regression (if time)

*The instructor reserves the right to drop some topics if time is limited.

Statement on Gender-Based Sexual Violence:

- “King’s (Western) is committed to reducing incidents of gender-based sexual violence (GBSV) and providing compassionate support to anyone who is going through or has gone through these traumatic events. If you are experiencing or have experienced GBSV (either recently or in the past), you will find information about support services for survivors, including emergency contacts at the following website:
- **Mental Health and Wellness at King's - King's University College**
- You can reach someone supports at Kings by emailing Care@kings.uwo.ca or calling 519-930 4640 to reach a social worker who can offer help.
- You can reach someone supports at Kings by emailing Care@kings.uwo.ca or calling 519-930 4640 to reach a Case Manager/Social worker who can offer help.
- You can also reach Western’s Gender-Based Violence & Survivor Support Case Manager by email or by calling 519-661-3568.

King’s Policy Statements will be attached below for the Kings website.

You may also be eligible to write the Special Exam if you are in a “Multiple Exam Situation” (e.g., more than 2 exams in 23-hour period, or more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details https://academicsupport.uwo.ca/accessible_education/exams/index.html.

Religious Accommodation

Students should consult the University's list of recognized religious holidays, and should give notice in writing to the instructor and Academic Advising Office if a course requirement will be affected by a religious holiday/observance. Notice must be given as early as possible, and no later than two weeks prior to an examination, and one week prior to a midterm test date. It is the responsibility of such students to inform themselves concerning the work done in classes from which they are absent and to take appropriate action.

2. Support Services

Accessibility, Counselling and Student Development at King's University College:

<https://mykings.ca/intranet/app/#/student-supports-and-services>

Students experiencing emotional or mental health distress can access services at King's University College: <https://mykings.ca/intranet/app/#/student-supports-and-services/personal-counselling>

Good2talk is a good online and phone 24/7 resource for students and is available in English, Mandarin, and French: <https://good2talk.ca>, 1-866-925-5454

MentalHealth@Western provides a complete list of options about how to obtain help: <https://www.uwo.ca/health/psych/index.html>

Academic Support Services at King's University College:

<https://mykings.ca/intranet/app/#/academics/academic-advising>

GBSV Support:

King's is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at: <https://mykings.ca/intranet/app/#/student-supports-and-services/campus-safety-and-reporting/gender-and-sexual-violence>

You can reach someone supports at Kings by emailing Care@kings.uwo.ca or calling 519-930-4640 to reach a social worker who can offer help.

You can also reach Western's Gender-Based Violence & Survivor Support Case Manager by [email](#) or by calling 519-661-3568.

See also https://www.uwo.ca/health/student_support/survivor_support/get-help.html

University Students' Council offers many valuable support services for students, including the health insurance plan: <http://westernusc.ca/services/>

3. Statement on Use of Electronic Devices

Use of Electronic Devices: Unless explicitly stated otherwise, you are not allowed to have a cell phone, or any other electronic device, with you during tests or examinations. Unauthorized possession of such a device during a test or examination constitutes an academic offence.

Use of Laptops, Tablets, and Smartphones in the Classroom: King's University College at Western University acknowledges the integration of new technologies and learning methods into the curriculum. The use of electronic devices such as laptop computers, tablets, or smartphones can contribute to student engagement and effective learning. At the same time, King's recognizes that instructors and students share jointly the responsibility to establish and maintain a respectful classroom environment conducive to learning.

The use of electronic devices by students during lectures, seminars, labs, etc., shall be for matters related to the course at hand only. Students found to be using electronic devices for purposes not directly related to the class may be subject to sanctions under the Student Code of Conduct; see <https://mykings.ca/intranet/app/#/student-supports-and-services/campus-safety-and-reporting/student-code-of-conduct>

Inappropriate use of electronics (e.g., laptops, tablets, smartphones) during lectures, seminars, labs, etc., creates a significant disruption. As a consequence, instructors may choose to limit the use of electronic devices in these settings. In addition, in order to provide a safe classroom environment, students attending in-person class sessions are strongly advised to operate laptops with batteries rather than power cords.

4. Statement on Academic Offences

King's is committed to academic integrity. Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, is posted at [here](#).

It is expected that students will submit work that is truly their own, completed without external assistance (human or artificial) except as explicitly permitted by the course instructor. Check with you instructor on what tools, including generative AI (ChatGPT, translation tools, grammar-checking tools) are permitted in the course. Because a tool is permitted in one course, that does not mean it is permitted in other courses.

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; see <https://elearningtoolkit.uwo.ca/tools/OriginalityReports-TurnItIn.html>.

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

5. Copyright of Course Material

Lectures and course materials, including PowerPoint presentations, tests, outlines, and similar materials are protected by copyright. Faculty members are the exclusive owner of copyright in those materials they create. Students may take notes and make copies for their own use. Students may not allow others to reproduce or distribute lecture notes and course materials publicly (whether or not a fee is charged) without the express written consent of a faculty member.

Unauthorized sharing of class content is subject to academic discipline.

Similarly, students own copyright in their own original papers and exam essays. If a faculty member wishes to post a student's answers or papers on the course website, they should ask for the student's written permission.

6. Use of Recordings

Participants in this course are not permitted to record the sessions, except where recording is an approved accommodation and/or the participant has the prior written permission of the instructor. Unauthorized recording and/or sharing of class content is subject to academic discipline.

7. Policy on Attendance

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.