UVic Land Acknowledgement
We acknowledge and respect the Lək̓ʷəŋən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day.

Course Content
An intuitive development of the basic concepts and techniques in econometrics. The emphasis is on the application of econometric concepts and techniques in analyzing economic phenomena. This course provides a general introduction to the practice of econometric analysis. While motivated by intuition and applications, the presentation of estimators and tests will be primarily mathematical in nature. We will focus largely on multiple regression techniques in cross-sectional data analysis (as well as time series analysis), considering common issues and problems that arise in applied empirical social science research. Students will learn R—a freely available and widely used statistical programming language—to analyse and plot data, draw inference, and compare alternative modelling approaches. The course closely follows the textbook “Introductory Econometrics: A Modern Approach” by J. Wooldridge.

Learning Outcomes
In this course you will gain an understanding of econometric methods and their applications. You will learn how to analyse data, interpret existing analyses, the basics of econometric theory that underpins econometric analysis, as well as independent research skills starting from formulating a research question to concise presentation of results. The course leads to highly transferrable modelling and programming skills through lab-based instruction using the statistical programming language R (widely used in academic research, government roles, and the private sector).

Textbooks
Textbook (required): The required textbook for this course is “Introductory Econometrics: A Modern Approach,” (Seventh Edition) by J. Wooldridge. It may be sold at the bookstore as a loose-leaf text and e-text (which saves you money), but you are welcome to buy it in bound form.
MindTap (Strongly Recommended): The loose-leaf textbook is bundled with MindTap, which provides additional notes and is required for submission of online assignments. Students can register for the course on MindTap online. If you buy a bound copy, make sure it is bundled with MindTap.

MindTap Information:
Course Link: https://student.cengage.com/course-link/MTPP752Z7JQC
Course Key: MTPP-752Z-7JQC
Lab Textbook (optional): Labs will be based on the statistical programming language R. The optional textbook “Using R for Introductory Econometrics” (Heiss, 2016) provides code to complete the exercises in Wooldridge and is freely available online at: http://www.urfie.net/

Prerequisites and Minimum Grade Requirements
Complete one of: Econ 103, 103C, or 180; Complete all of: Econ 104; Earn a minimum C+ in one of: Econ 245 or Stat 260; Complete one of: Econ 246 or Stat 260; Complete one of: Econ 225 or Engr 240; Complete one of: Math 100, 102, or 109
Grading
There are three assessment options for Econ 345. You do not need to choose your assessment option in advance, I will select the option that gives you the best grade at the end of term. Each of these options is outlined in the table below:

<table>
<thead>
<tr>
<th></th>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1 Exam</td>
<td>17.5%</td>
<td>17.5%</td>
<td>22.5%</td>
</tr>
<tr>
<td>Midterm 2 Exam</td>
<td>17.5%</td>
<td>17.5%</td>
<td>22.5%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>35%</td>
<td>40%</td>
<td>45%</td>
</tr>
<tr>
<td>Labs</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>In Class Assessments</td>
<td>15%</td>
<td>15%</td>
<td>/</td>
</tr>
<tr>
<td>MindTap</td>
<td>5%</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>

Essential Course Requirements: You must pass one exam (with a score of at least 50%) to not receive an “N” in this course. Failure to meet this requirement will result in a grade of “N” regardless of the cumulative percentage in the course. “N” is a failing grade and factors into GPA as a value of 0.

Midterms: There will be two midterm exams consisting of a combination of multiple choice and written response style questions. Items permitted during exams are: a non-programmable calculator without storage capacity (no Ti 89 etc.), pen and pencil, a water bottle, a reference sheet (handwritten on one side of a standard letter size piece of paper, more details to be provided on the course Brightspace page), and your ID card. Any additional material will not be allowed on your desk during examinations unless approved in writing by myself beforehand. If you miss a term exam without illness or family affliction, you will receive 0% on the exam.

Note: All Material covered in lectures, labs, and relevant textbook chapters, may appear on the exam, thus attendance in lectures and labs is highly encouraged. Attendance highly correlates with final course grades. All exams are cumulative since the material presented in lectures and chapters builds on itself.

Midterm 1: In Class May 30th
Midterm 2: In Class June 13th

You must contact the course instructor as soon as reasonable if you miss an exam and submit the Request for an In-Course Extension form. One re-write will be scheduled for each exam and available to students with an appropriate reason for missing the exam. The re-write will cover the same material but may be a different format. There may be more emphasis on coding and written response on the re-write exam.

Each midterm exam will be scheduled for 60 minutes (first 60 minutes of the lecture). There will be a 50-minute recording posted to the course page for the remaining lecture time. You can watch this directly following the exam or anytime before the next lecture.

MindTap Exercises: MindTap exercises are designed to give you regular practice of the concepts learned in lectures and to keep you motivated with the readings. These are designed to be completed on a weekly basis. No extension will be granted on MindTap exercises. None, under any circumstances. You are encouraged to keep up with the weekly assignments as we cover the material. However, I understand that life happens! All of the MindTap Exercises will be due June 29th at 11:59pm.
**Lab Participation:** Lab exercises are designed to teach you econometric modelling in practise using the statistical programming language R. You will be asked to hand in answers to a short set of questions on Brightspace. No extensions will be granted on lab exercises. You may collaborate on the lab assignments with your classmates, but you must submit your own work! If your lab discussion matches (or nearly matches) your classmates, this will be considered cheating.

As this is a condensed course, there will be two lab sessions in a regular week. You will need to upload your two lab assignments to Brightspace each week. The labs held on Monday’s will be due the following Wednesday and the labs held on Thursday’s will be due the following Sunday.

If you are attending the lab in person (strongly recommended), you must attend the section you are registered in.

**In Class Assessments:** In class exercises will be comprised of practice problems that will help you prepare for the exams and become more comfortable with the material. These assessments must be completed and submitted during class for assessment. In class assessments will typically take 15-20 minutes to complete.

In class assessments cannot be submitted if you are not physically present in the room. If you miss a class where there was a scheduled assessment, it cannot be made up. However, there are 6 scheduled assessments and only your top scoring 4 assessments will be used to calculate your grade.

**Scheduled Assessments:**

**In Class Exercises:**
Friday May 19th, Friday May 26th, Friday June 2nd, Friday June 9th, Friday June 16th, and Friday June 23rd

**Final Exam:** The Final Exam is held during the last scheduled class time on last day of course. Our final exam will be 1hr 50 minutes on Friday June 30th during our regularly scheduled lecture time. The exam is cumulative. The same exam rules and permitted materials for the midterms will apply to the final exam. More information will be posted on Brightspace closer to the final.

**Grading Scale:**

<table>
<thead>
<tr>
<th></th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D</th>
<th>F or N</th>
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<tbody>
<tr>
<td>Score</td>
<td>90-100</td>
<td>85-89</td>
<td>80-84</td>
<td>77-79</td>
<td>73-76</td>
<td>70-72</td>
<td>65-69</td>
<td>60-64</td>
<td>50-59</td>
<td>0-49</td>
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Students should review the University’s more detailed [summary of grading](#).

**Lecture and Lab Recordings**

It is my intention to record and post every lecture and lab session on Brightspace. If you ask a question during a session, your voice will be present in the recording. The in class assessments will NOT be recorded. Any active learning activities/extended in class examples may not be recorded.

**Brightspace**

Brightspace is used extensively for the course. All students are expected to be fully functional with the system.
- The lecture notes will be posted in Brightspace. Please note that the lecture notes online are only outlines of the actual lectures.
- The lecture videos will be posted through Echo360 on Brightspace.
- Your lab assignments and all written project components will be submitted via Brightspace.
- All announcements will be posted in Brightspace. Students are advised to check it frequently.
Course Schedule (Tentative):

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter</th>
<th>Week</th>
<th>Important Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Intro and Statistics Review</td>
<td>Appendices A-C</td>
<td>1 – May 15</td>
<td>Classes Start Tuesday May 16th</td>
</tr>
<tr>
<td>Introduction to Econometrics</td>
<td>1 and 2</td>
<td>2 – May 22</td>
<td>Labs Start Thursday May 25th</td>
</tr>
<tr>
<td>Univariate Regression</td>
<td></td>
<td></td>
<td>In class exercise – Friday May 26th</td>
</tr>
<tr>
<td>Multivariate Regression Inference</td>
<td>3 and 4</td>
<td>3 – May 29</td>
<td>Midterm 1 – May 30th</td>
</tr>
<tr>
<td>Asymptotic Properties</td>
<td>5 and 6</td>
<td>4 – June 5</td>
<td>In class exercise – Friday June 2nd</td>
</tr>
<tr>
<td>Model Specification Issues</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dummy Variables</td>
<td>7 and 10</td>
<td>5 – June 12</td>
<td>Midterm 2 – June 13th</td>
</tr>
<tr>
<td>Introduction to Time Series</td>
<td></td>
<td></td>
<td>In class exercise – Friday June 16th</td>
</tr>
<tr>
<td>Heteroskedasticity</td>
<td>10 and 8</td>
<td>6 – June 19</td>
<td></td>
</tr>
<tr>
<td>Determining Causality and Instrumental Variables</td>
<td>15</td>
<td>7 – June 26</td>
<td>MindTap Due – Thursday June 29th</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Final Exam – June 30th</td>
</tr>
</tbody>
</table>

E-mail correspondence
Emails should be limited to critical matters, such as inability to attend class, an exam, or prolonged illness, and should include the course name and number in the subject line. Questions on course material should be asked during office hours, in class, during labs, or on our Brightspace discussion boards.

The standard format for writing an email must be used. This means it should begin with a salutation (e.g. Dear….), include full sentences and it must conclude with a signature that includes your full name and V#.

Electronic devices
You are encouraged to install econometric software on your personal computers. R (https://cran.r-project.org/) and RStudio (https://www.rstudio.com/) are freely available online, the lab will cover use of the software. You are also encouraged to bring your own laptops with R and RStudio installed to the labs.

Course Policies
This course adheres to the Undergraduate Course Policies of the Department of Economics that deal with the following issues:

- Academic concessions
- Academic integrity (plagiarism and cheating)
- Attendance
- Grading
- Inclusivity and diversity
- Late adds
- Late assignments
- Repeating courses
- Review of an assigned grade
- Sexualized violence prevention and response
- Students with a disability
- Term assignments and debarment from examinations
- Travel plans
- Waitlists

The following policies are explicitly included because of their importance.

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Examinations
Participation in-person for all scheduled examinations is mandatory. Consideration for missed examinations will be given only on the basis of documented illness, accident or family affliction, and for no other reasons. In the event of a missed final examination, students are advised to follow the procedures outlined in the University Calendar.

Students are advised not to make work or travel plans until after the examination timetable has been finalized. Students who wish to finalize their travel plans at an earlier date should book flights that depart after the end of the examination period. There will be no special accommodation if travel plans conflict with the examination.

Waitlist Policies
- Instructors have no discretion to admit waitlisted students or raise the cap on the course.
- Students on the waitlist should discuss with the instructor how to ensure they are not behind with coursework in the event they are admitted.
- Registered students who do not participate as specified in this outline during the first 7 calendar days for Term One, or the first 2 class meetings for Term Two and Three courses, may be dropped from the course.
- Registered students who decide not to take the course are responsible for dropping the course, and are urged to do so promptly out of courtesy toward waitlisted students.
- Waitlist offers cease after the last date for adding courses irrespective of published waitlists.

Academic Integrity
Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. Students are expected to observe the same standards of scholarly integrity as their academic and professional counterparts. A student who is found to have engaged in unethical academic behaviour, including the practices described in the Policy on Academic Integrity in the University Calendar, is subject to penalty by the University.

Review What is Plagiarism for the definition of plagiarism. Note: Submitted work may be checked using plagiarism detection software.

Student Code of Conduct
The Humanities, Science, and Social Sciences Faculties have adopted this Student code of conduct. Please, review.

University Policy on Human Rights, Equity and Fairness
The University is committed to promoting, providing and protecting a positive, supportive and safe learning and working environment for all its members. See General University Policies.

Accessibility & Health Resources
Centre for Accessible Learning
Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, you are free to approach me; however, you must register with the Centre for Accessible Learning (CAL) for formal arrangements to be made. The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Health Services - University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives.

Support Connect - a 24/7 mental health support service for students
- Toll-free (calls from North America): 1-844-773-1427
- International collect calls: 1-250-999-7621
Counselling Services - Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students.

Elders' Voices - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being.

Course Experience Survey (CES)
I value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future.

When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to the CES log-in. You will use your UVic NetLink ID to access the survey, which can be completed on your laptop, tablet or mobile device. I will remind you nearer the time, but please be thinking about this important activity, especially the following three questions, during the course.

- What strengths did your instructor demonstrate that helped you learn in this course?
- Please provide specific suggestions as to how the instructor could have helped you learn more effectively.
- Please provide specific suggestions as to how this course could be improved.

Repeating Courses
Be aware of the policy regarding the repeating of courses; see University Calendar. In order to request permission to attempt this course for the third time, you must follow the instructions provided under the Repeating Courses policy on the Economics website. Failure to obtain permission will result in deregistration from the course.

Sexualized Violence Prevention & Response
UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. Students are encouraged to learn more about how the university defines sexualized violence and its overall approach by visiting www.uvic.ca/svp. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Contact svpcoordinator@uvic.ca.

Educational Technology involving storage outside Canada
The following educational technology, which stores or accesses your personal information outside Canada, is used for this course: MindTap (through Cengage).

Personal information is required by the service. The privacy policy and the terms of use list the personal information stored outside of Canada and are available HERE: I encourage you to read this.

If you are not comfortable with your personal information being stored outside of Canada, please speak to me within the first week of class about using an alternative (such as using an alias or nickname). Otherwise, by continuing in this course, you agree to the use of the educational technology in the course and the storage of personal information outside of Canada.