Overview
This course provides an introduction to the principles of econometrics. It is the first of a two-course sequence in econometrics taught in the Department. The second course is Econ 366, Econometrics II.

Econometrics is an application of statistical methods for estimating economic relationships, testing economic theories, and forecasting macroeconomic and financial time series. The focus of this course is on the multiple regression analysis with cross-sectional data. Towards the end of the course, we will discuss regression analysis with time series data. If time permitting, additional topic on Logit and Probit models for binary dependent variables will also be introduced.

In the labs, you will be introduced to R, a widely used programming language for statistical computing. It is expected that you attend the weekly labs and complete the lab exercises.

Course Outline
Topic 1: The Simple Linear Regression Model
Topic 2: Multiple Regression Analysis
Topic 3: Time series Analysis
Topic A: Logit and Probit Models for Binary Response

Grading
Assessment for this course is based on labs, assignments, midterm exam and final exam.

Labs: 10 %
Assignment(s): 30 %
Midterm Exam: 25 %
Final Exam: 35 %

Labs: These are held weekly on Friday 12:30 pm - 1:20 pm or 1:30 pm - 2:20 pm. Instructions for each lab will be posted on Brightspace. You are expected to follow the instructions and complete the required exercises. Completing the lab exercises accounts for 5% of your grade. The remainder 5% is for participation. We will be using R for statistical analysis. You are encouraged to install R on your personal computers.

Assignments: There will be 6 assignments throughout the term. You can work in groups but each of you will need to submit your own copy. Some of the questions may involve working with the data. I strongly encourage you to use R as the statistical software of choice, although I’m imposing this as a requirement for this course.

Recommended textbooks
# Course Schedule

Below is the tentative schedule for this course and is subject to change.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Chapter</th>
<th>Assignment and Exam</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Causality, intro to linear regression</td>
<td>W1, W2.1-2.3, SW1, SW4.1-4.3</td>
<td></td>
<td>No lab</td>
</tr>
<tr>
<td>2</td>
<td>More on the simple linear regression model</td>
<td>W2.4-2.7, SW4.4-4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Multiple linear regression: estimation</td>
<td>W3.1-3.4, SW6.1-6.4</td>
<td>Assignment 1 due on Monday</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Multiple linear regression: estimation</td>
<td>W3.5-3.7, SW6.5-6.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Multiple linear regression: inference</td>
<td>W4.1-4.3, SW3, SW7.1</td>
<td>Assignment 2 due on Monday</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Multiple linear regression: inference</td>
<td>W4.4-4.5, SW7.2-7.4</td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>Multiple linear regression: asymptotics</td>
<td>W5, SW2.6</td>
<td>Assignment 3 due on Monday</td>
<td></td>
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<tr>
<td>8</td>
<td>Multiple linear regression: further issues</td>
<td>W6</td>
<td><strong>Midterm Exam on Oct. 27 (Wednesday)</strong></td>
<td>No lab</td>
</tr>
<tr>
<td>9</td>
<td>Multiple linear regression: heteroskedasticity</td>
<td>W8</td>
<td>Assignment 4 due on Monday</td>
<td></td>
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<tr>
<td>10</td>
<td>Multiple linear regression: dummy dependent variables</td>
<td>W9.4, W7, SW11.1</td>
<td></td>
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<tr>
<td>11</td>
<td>Time series analysis</td>
<td>W10</td>
<td>Assignment 5 due on Monday</td>
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<tr>
<td>12</td>
<td>Time series analysis</td>
<td>W11</td>
<td></td>
<td></td>
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<tr>
<td>13</td>
<td>Logit and Probit</td>
<td>MLE, W17.1, SW11.2</td>
<td>Assignment 6 due on Monday</td>
<td>No lab</td>
</tr>
</tbody>
</table>

**Final exam:** First Term (December) exam timetables are posted at the end of October.

W: Wooldridge; SW: Stock and Watson.
Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
</tr>
<tr>
<td>A</td>
<td>85-89</td>
</tr>
<tr>
<td>A-</td>
<td>80-84</td>
</tr>
<tr>
<td>B+</td>
<td>77-79</td>
</tr>
<tr>
<td>B</td>
<td>73-76</td>
</tr>
<tr>
<td>B-</td>
<td>70-72</td>
</tr>
<tr>
<td>C+</td>
<td>65-69</td>
</tr>
<tr>
<td>C</td>
<td>60-64</td>
</tr>
<tr>
<td>D</td>
<td>50-59</td>
</tr>
<tr>
<td>F or N</td>
<td>0-49</td>
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</tbody>
</table>

Students should review the University’s more detailed summary of grading.

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.

Examinations

Attendance at 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 show up in the first seven calendar days from the start of the course 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.

You will be asked to sign a pledge of integrity on each exam/assignment that you undertake online. Review What is Plagiarism for the definition of plagiarism. Note: Submitted work may be checked using plagiarism detection software.
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.

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.

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.