

ECONOMICS 321 (SPRING 2016)

TAO CHEN

COURSE DESCRIPTION

Economics 321 is the first course in a two-course sequence representing the core of econometrics required for undergraduate students in economics department. The objective of this course is to prepare the students for the empirical estimation of linear models. Students will also be introduced to STATA, a statistical software package, and will be required to complete regular computer-based assignments throughout the course.

The prerequisites are Economics 211 and 221 or equivalent courses from another department. The overall grade will be based on five sets of homework, two midterms and a final exam.

TEXT

The required textbook for this course is *Introduction to Econometrics* by James H. Stock and Mark W. Watson (updated version of 3rd Edition, Pearson). I will follow the text closely and plan to cover the following topics:

- (1) The statistical analysis of economic (and related) data (Chap 1-3, Week 1-3)
- (2) Linear regression with one regressor (Chap 4, Week 4-6)
- (3) Regression with a single regressor: hypothesis tests and confidence intervals (Chap 5, Week 7-8)
- (4) Linear regression with multiple regressors (Chap 6, Week 9-10)
- (5) Hypothesis tests and confidence intervals in multiple regression (Chap 7, Week 11-12)
- (6) Nonlinear regression functions (Chap 8, time permitting)

GRADING

The overall grade will be based on homework (25%), two midterms (20% each) and a final (35%). There will be no late homework and no makeup for the midterms. If you miss a midterm, your final will count for 55% of the grade. You must take at least one midterm exam, and the final is compulsory to pass the course.

CLASS TIME

Monday and Wednesday 14:30–15:50 in MC 4040.

HOMEWORK

- Chap 1-3: Review of the concepts; 2.6, 2.8, 2.12, 2.22, 2.24, 3.2, 3.10 and 3.18; E3.1; Appendix 3.1-3.
- Chap 4: Review of the concepts; 4.2 4.8 4.10 and 4.14; E4.1 and 4.2; Appendix 4.2 and 4.3.
- Chap 5: Review of the concepts; 5.2 5.5-5.6 5.8 and 5.10; E5.1 and 5.2; Appendix 5.1.
- Chap 6: Review of the concepts; 6.1-6.4 6.8 and 6.10; E6.1 and 6.2; Appendix 6.1-6.3.
- Chap 7: Review of the concepts; 7.2 7.4 and 7.8; E7.1 and 7.2; Appendix 7.2.

CONTACT INFORMATION

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ECONOMICS DEPARTMENT DEFERRED FINAL EXAM POLICY

Deferred Final Exam Policy found at <https://uwaterloo.ca/economics/current-undergraduates/policies-and-resources/deferred-final-exam-policy>.

CROSS-LISTED COURSE

Please note that a cross-listed course will count in all respective averages no matter under which rubric it has been taken. For example, a PHIL/PSCI cross-list will count in a Philosophy major average, even if the course was taken under the Political Science rubric.

ACADEMIC INTEGRITY, GRIEVANCE, DISCIPLINE, APPEALS AND NOTE FOR STUDENTS WITH DISABILITIES

See www.uwaterloo.ca/accountability/documents/courseoutlinestmts.pdf. The text for this web site is listed below:

- Academic Integrity: In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. [Check www.uwaterloo.ca/academicintegrity/ for more information.]
- Grievance: A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please be certain to contact the department's administrative assistant who will provide further assistance.
- Discipline: A student is expected to know what constitutes academic integrity [check www.uwaterloo.ca/academicintegrity/] to avoid committing an academic offence, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about rules for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate Associate Dean. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline, www.adm.uwaterloo.ca/infosec/Policies/policy71.htm. For typical penalties check Guidelines for the Assessment of Penalties, www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm.
- Appeals: A decision made or penalty imposed under Policy 70 (Student Petitions and Grievances) (other than a petition) or Policy 71 (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) www.adm.uwaterloo.ca/infosec/Policies/policy72.htm.
- Note for Students with Disabilities: The AccessAbility Services office (<https://uwaterloo.ca/disability-services>), located on the first floor of the Needles Hall extension (NH 1401), collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the AS office at the beginning of each academic term.
- Turnitin.com: Text matching software (Turnitin) will be used to screen assignments in this course. This is being done to verify that use of all material and sources in assignments is documented. In the first week of the term, details will be provided about the arrangements for the use of Turnitin in this course.