

Department of Economics Faculty of Arts

Economics 371 (L01) (Transportation Economics)

Instructor: Prof. WALLS, W. D. Lecture Location: HNSC 128

Phone: x6761 Lecture Days/Time: TR 12:30PM—1:45PM

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Office: SS 332 Winter 2024

Office Hours: TR: 12:15—12:30; TR: 13:45—14:00;

F: 9:00 - 11:00; or by appointment.

Course Description:

This course focuses on the economic and empirical analysis of the transportation industries. Conceptual topics include the demand for transport, analysis of direct and external costs, pricing and investment, competition and regulation. Within this conceptual framework, the course focuses on urban and intercity transportation, passenger and freight transportation, domestic and international transport markets, and the various modes of transportation.

Students who successfully complete this course will:

- a) develop familiarity with sources of transportation industry data and introduced to collecting, collating, and summarizing transportation data for the purpose of understanding transportation markets.
- b) develop familiarity with transportation and location, including Weber's conceptualization of the importance of transportation cost on industrial location, the importance of transportation cost on rent gradients, the importance of transportation cost in determining geographic market areas in a Loschian model of spatial competition (Capozza and Van Order, 1978).
- c) develop familiarity with demand for freight transportation, including transport demand being derived from the demand for the underlying commodity for freight transportation.
- d) develop familiarity with the demand for passenger transportation, including the value of travel time savings and the ways in which it can be quantified.
- e) develop familiarity with important cost concepts, including economies of scale, scope, density, length-of-haul, massed reserves, and economies of network size.
- f) develop familiarity with pricing in transportation, including class-of-service pricing, backhaul pricing, Ramsey pricing, peak-load pricing with and without a shifting peak.
- g) develop familiarity with congestion pricing in theory and evaluating the effects of congestion pricing in practice.
- h) develop familiarity with the evaluation of transportation infrastructure investment.
- i) develop familiarity with the economic regulation of transportation, and the economic effects of the surface and air transport deregulation.
- i) develop familiarity with the role of transportation in economic development.
- k) develop the skills necessary for the critical evaluation of news stories about transportation sector.
- be able to produce a twelve-page written report on a petroleum markets topic that combines conceptual economic ideas (at the level of Econ 201), market institutions, and simple descriptive empirical analysis.

Course Outline:

- a) Transportation industry data and statistics.
- b) Transportation and location.
- c) Demand for transportation.
- d) Value of travel time savings.
- e) Costs of transportation: scale, scope, density, length-of-haul.
- f) Network economies and massed reserves.
- g) Pricing transportation: backhaul pricing, classes of service, second best, congestion pricing.
- h) Congestion/Road pricing: Theory and practice.
- i) Infrastructure investment and project evaluation.
- j) Regulation and deregulation: Concepts and empirical evidence.
- k) Transportation and development.

Prerequisites/corequisites:

Econ 201, 203.

Required Textbook(s):

Button, Kenneth. Transport Economics. Fourth Edition. Edward Elgar, 2022.

Recommended Textbook(s):

Mohring, Herbert. Transportation Economics. Ballinger, 1976.

Required Access to Technology:

All course readings and recordings other than the required K. Button textbook will be provided through the D2L web portal. This will require Internet access with the capability of rendering PDF files and Yuja video files.

Desire2Learn:

This course will make use of the Desire2Learn (D2L) platform. Students who are registered in the course can log on at http://d2l.ucalgary.ca through their student centre. Please note that D2L features a class email list that may be used to distribute course-related information. These e-mails go to your University of Calgary e-mail addresses only.

Grade Determination:

	100%
Written Term Project	50%
Video Presentation of Term Project	5%
Quizzes (3 @ 15 % each)	45%

Examination Details:

Tests **WILL NOT** involve multiple choice questions, fill in the blanks, matching items across columns, or connecting the dots. A non-programmable calculator will be permitted during the writing of all quizzes.

Programmable calculators, cellphones, textbooks, course notes, and other electronic devices <u>will not</u> be allowed during the writing of tests. **Students are reminded that simply being able to access a cellphone during an exam is academic misconduct.**

The dates for the three in-class tests are **February 1st**, **March 7th**, **and April 4th**. The due date for the **Written Term Project and Video Presentation** in the D2L Dropbox is **April 14th @ 9AM**.

<u>This course has no final examination.</u> Instead, the course emphasizes writing and speaking/presentation skills. The final project and video presentation will demonstrate each student's ability to articulate course concepts in a practical applied context. Both the written term project and the video presentation are to be submitted using Dropbox in D2L.

Grading Policies:

The official grading system will be used. See http://www.ucalgary.ca/pubs/calendar/current/f-1-1.html.

Students **must receive a passing grade** on the **written term project AND video presentation** to pass the course.

If a student's letter grade on the project exceeds their quizzes letter grade, the weights of the quizzes are transferred to the final exam. The student must have written the quizzes or provided supporting documentation for the absence(s).

As per the Writing Across the Curriculum Statement in the Calendar, writing and grading thereof will be a factor in the evaluation of student work. See https://www.ucalgary.ca/pubs/calendar/current/e-2.html.

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES/TESTS/EXAMS under any circumstances, nor may the quizzes/tests/exams be written early. Students unable to write the quizzes/tests/exams because of documented illness, family emergency, religious observance, or university-sanctioned event will have the weight shifted to the final examination; otherwise a grade of zero will be assigned.

Any student work which remains undistributed after the last day of classes will be available to students through the instructor's office during the instructor's office hours.

Reappraisal of Grades:

For Reappraisal of Graded Term Work, see Calendar I.2 http://www.ucalgary.ca/pubs/calendar/current/i-2.html

For Reappraisal of Final Grade, see Calendar I.3 http://www.ucalgary.ca/pubs/calendar/current/i-3.html

Academic Misconduct and Intellectual Honesty:

Academic Misconduct refers to student behavior that compromises proper assessment of students' academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

Statement of Intellectual Honesty, see Calendar K.3 https://www.ucalgary.ca/pubs/calendar/current/k-3.html

Plagiarism and Other Academic Misconduct

https://ucalgary.ca/student-services/student-success/learning/academic-integrity

Academic Accommodations:

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services. SAS will process the request and issue letters of accommodation to instructors. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their instructor. The full policy on Student Accommodations is available at

https://www.ucalgary.ca/legalservices/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf and https://www.ucalgary.ca/legalservices/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf.

Freedom of Information and Protection of Privacy (FOIP) Act:

Personal information is collected in accordance with FOIP. Assignments can only be returned to the student and will be accessible only to authorized faculty and staff. For more information, see https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/faq-privacy-students.pdf

Internet and Electronic Communication Device Information:

The use of cell phones for any purpose in class is prohibited. Computers and tablets may be used for note taking only unless otherwise authorizes by the instructor.

Copyright Legislation:

See the University of Calgary policy on Acceptable Use of Material Protected by Copyright at https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Acceptable-Use-of-Material-Protected-by-Copyright-Policy.pdf. Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

Recording of Lectures:

Recording of lectures is prohibited, except for audio recordings authorized as an accommodation by SAS or an audio recording for individual private study and only with the written permission of the instructor. Any unauthorized electronic or mechanical recording of lectures, their transcription, copying, or distribution, constitutes academic misconduct. See https://www.ucalgary.ca/pubs/calendar/current/e-6.html.

Instructor Intellectual Property:

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Important Dates:

Please check: http://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html.

Student Organizations:

Faculty of Arts Students' Association (F.A.S.A.):

Economics Department Representative

Office: SS 803, E-mail: econrep@fasaucalgary.ca and Web: www.fasaucalgary.ca.

Society of Undergraduates in Economics: https://www.ucalgarysue.com/.

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students to succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career events such as Industry Night and information sessions, mentorship programs, and social events for members. They invite you to join by contacting SUE at sue@ucalgarysue.com

Faculty of Arts Program Advising and Student Information Resources:

- Have a question, but not sure where to start? The Arts Students' Centre is your information
 resource for everything in Arts! Drop in at SS102, call them at 403-220-3580, or email them at
 artsads@ucalgary.ca. You can also visit the Faculty of Arts website at
 http://arts.ucalgary.ca/undergraduate, which has detailed information on common academic
 concerns, including program planning and advice.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 403-210-ROCK [7625] or visit them in the MacKimmie Tower.

Student Support and Resources:

- See https://www.ucalgary.ca/registrar/registration/course-outlines for information on campus mental health resources, the Student Ombuds Office, Student Success Centre, Safewalk, and Emergency Evacuation and Assembly.
- Online writing resources are available at https://ucalgary.ca/student-services/student-success/writing-support.

Notes:

- 1. Students are responsible for all assigned material, e.g., supplementary material posted on D2L, regardless of whether or not the material was covered in class.
- 2. Cell phones <u>may not be used for any purpose</u> in class, including taking photographs.
- 3. In cases where the weight of a missed quiz would be transferred to the final examination, it will instead be transferred to the written term project.

WDW 2023-11-21