

Department of Economics Faculty of Arts

Economics 667(L01) (Industrial Organization)

Instructor: J. Church Lecture Location: SS 403 (subject to change)

Phone: 403-220-6106 Lecture Days/Time: MW 9:30-10:45

Email: jrchurch@ucalgary.ca

Office: Zoom Delivery

Office Hours: MW 15:00-16:00 (Winter 2023)

Course Description:

The central organizing principle of this course is marker power: its acquisition, maintenance, and exercise. The course will focus on both theory and application, with an emphasis on how industrial organization does, and should, inform competition policy and antitrust law. Antitrust law attempts to prevent behaviour which leads to the creation, enhancement, or maintenance of market power. The focus will be on appropriate enforcement policy with respect to collusion, mergers, abuse of dominant position/monopolization, and vertical contracting/restraints.

Tentative Course Outline:

- 1. Introduction and Exercise of Market Power
 - a. Competition policy in Canada and current antitrust issues
 - b. Theory of the firm
 - c. Exercise of market power: source and effects
 - i. Monopoly, dominant firm, and durable goods monopolist
 - ii. Applications: Two-sided platforms, electricity in Alberta, essential facilities
 - d. Product quality, selection, and advertising
 - e. Price discrimination and monopoly bundling and tying
- 2. Oligopoly and Game Theory
 - a. Nash equilibrium
 - b. Classic oligopoly
 - i. Cournot
 - 1. Free entry
 - ii. Bertrand
 - 1. Capacity Constraints
 - 2. Product Differentiation
 - c. Supply function equilibria
 - d. Bayesian-Nash equilibria
 - i. Application: HTR
- 3. Mergers, Market Definition, and Product Differentiation
 - a. Product Differentiation
 - i. Hotelling
 - ii. Logit
 - b. Identifying Market Power
 - i. Market definition
 - ii. SCP

- iii. Monopoly profits
- c. Applications: Merger analysis
 - i. Market definition and concentration: structural presumptions
 - ii. Upward pricing pressure
 - iii. Merger simulation
- 4. Market Structure and Strategic Behaviour
 - a. Commitments, threats, strategic moves, and subgame perfection
 - b. Entry deterrence
 - i. Application: MSA v. TAU and abuse of dominance
 - c. Raising Rivals' Costs
 - d. Vertical mergers
 - e. Tying
 - f. Exclusive dealing
 - g. Collusion
 - h. Predation

A detailed list of topics and readings will be provided.

Required Textbook(s):

Church, J. 2006. The Impact of Vertical and Conglomerate Mergers on Competition Brussels: European Commission. Available online at http://bookshop.europa.eu/en/the-impact-of-vertical-and-conglomerate-mergers-on-competition-pbKD7105158/

Church, J., and R. Ware. 2000. Industrial Organization: A Strategic Approach. San Francisco: McGraw-Hill. [Recommended for certain chapters. Available online at https://works.bepress.com/jeffrey_church/23/]

Tirole, J. 1988. Theory of Industrial Organization. Cambridge, Mass.: MIT Press.

Church and Ware is an advanced undergraduate text that has an antitrust focus and features real world applications/examples. It is similar in coverage to the standard graduate textbook (Tirole). My study on vertical mergers substantially updates the material on anticompetitive strategies in Church and Ware.

Books on Reserve:

List will be posted at Econ 667 D2L website.

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/Assessment:

MIDTERM EXAM	25%
FINAL EXAMINATION	50%
Problem Sets	25%
	100%

Grade Determination and Final Examination Details:

The official grading system will be used. See https://www.ucalgary.ca/pubs/calendar/current/f-1-2.html.

Students must receive a passing grade on the final exam to pass the course.

If a student's letter grade on the final exam exceeds their midterm letter grade, the weight of the midterm will be transferred to the final exam.

There will be a department scheduled final examination, held in a classroom, lasting 2 hours.

Tests and exams will not involve multiple choice questions.

Calculators and communication devices are not allowed in exam rooms.

The final examination will be comprehensive.

The exact date for the in-class midterm will be announced at least one week in advance.

A letter grade will be awarded based on the numeric average of the problem sets.

Absence from a Test/Exam:

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES under any circumstances, nor may the quizzes be written early. Students unable to write the quizzes 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. If a student cannot write their final exam on the date assigned by the Department, they need to arrange for a deferred exam with the department.

IMPORTANT POLICIES AND INFORMATION

Absence From a Mid-term Examination

Students who are absent from a scheduled term test or quiz for legitimate reasons are responsible for contacting the instructor via email within 48 hours of the missed test to discuss alternative arrangements. A copy of this email may be requested as proof of the attempt to contact the instructor. Any student who fails to do so forfeits the right to a makeup test.

Deferred Term Work Form: Deferral of term work past the end of a term requires a form to be filled out by the student and submitted, along with any supporting documentation, to the instructor. The form is available at:

https://live-ucalgary.ucalgary.ca/sites/default/files/teams/14/deferral-of-term-work-2020.pdf

Once an extension date has been agreed between instructor and student, the instructor will email the form to the Faculty of Arts Program Information Centre (ascarts@ucalgary.ca) for approval by the Associate Dean.

Deferral of a Final Examination

Deferral of a final examination can be granted for reasons of illness, domestic affliction, and unforeseen circumstances, as well as to those with three (3) final exams scheduled within a 24-hour period. Deferred final exams will not be granted to those who sit the exam, who have made travel arrangements that conflict with their exam, or who have misread the examination timetable. The

decision to allow a deferred final exam rests not with the instructor but with Enrolment Services. Instructors should, however, be notified if you will be absent during the examination. The Application for Deferred Final Exam, deadlines, requirements and submission instructions can be found on the Enrolment Services website at

https://www.ucalgary.ca/registrar/exams/deferred-exams.

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:

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.

Student committing academic misconduct during the final exam will not receive a passing grade for the course.

For information on the Student Academic Misconduct Policy, Procedure and Academic Integrity, please visit: https://www.ucalgary.ca/pubs/calendar/current/k-3.html

<u>Plagiarism And Other Forms Of Academic Misconduct</u>

Academic misconduct in any form (e.g. cheating, plagiarism) is a serious academic offence that can lead to disciplinary probation, suspension or expulsion from the University. Students are expected to be familiar with the standards surrounding academic honesty; these can be found in the University of Calgary calendar at http://www.ucalgary.ca/pubs/calendar/current/k.html. Such offences will be taken seriously and reported immediately, as required by Faculty of Arts 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.

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/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure

Research Ethics

Students are advised that any research with human subjects – including any interviewing (even with friends and family), opinion polling, or unobtrusive observation – must have the approval of the Conjoint Faculties Research Ethics Board. In completing course requirements, students must not undertake any human subject research without discussing their plans with the instructor, to determine if ethics approval is required.

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.

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/access-information-privacy

Copyright Legislation:

See the University of Calgary policy on Acceptable Use of Material Protected by Copyright at https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

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Evacuation Assembly Points

In the event of an emergency evacuation from class, students are required to gather in designated assembly points. Please check the list found at https://www.ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points and note the assembly point nearest to your classroom.

Important Dates:

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

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.

Important Contact Information

Campus Security and Safewalk (24 hours a day/7 days a week/365 days a year)

Phone: 403-220-5333

Faculty of Arts Undergraduate Students' Union Representatives

Phone: 403-220-6551

Email: arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca,

arts4@su.ucalgary.ca

Students' Union URL: www.su.ucalgary.ca

Graduate Students' Association

Phone: 403-220-5997 Email: askgsa@ucalgary.ca URL: www.ucalgary.ca/gsa

Student Ombudsman

Phone: 403-220-6420 Email: ombuds@ucalgary.ca

Campus Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the following resources:

SU Wellness Centre: http://www.ucalgary.ca/wellnesscentre/

Student Wellness Services:

https://www.ucalgary.ca/wellness-services/services/mental-health-services

Campus Mental Health Strategy website: https://www.ucalgary.ca/mentalhealth/.

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. A detailed list of topics and readings will be provided. Required and recommended readings will be drawn from the textbooks, from titles on reserve in the library, electronically on the internet, and handouts posted to D2L.