

Department of Economics  
University of Colorado, Boulder

Economics 8757  
Industrial Organisation

## Syllabus

Professor: Martin Byford  
Office: Economics 4B  
Email: martin.byford@colorado.edu

Lectures: TR 9.30{10.45 Economics 5  
Office Hours: 11.00{12.30 Thursday  
Course Website: CULearn

### Course Description

This course provides an introduction to the theoretical foundations of industrial organization. We will cover topics that explore the themes of efficiency, strategic behavior and market power in markets. The aims of this subject are three fold: First, to introduce key models and results in the study of IO, thereby providing students with an insight into the factors that influence the organization of markets and the challenges that face regulators. Second, to make students familiar with the technical and game theoretic methods employed in IO. Third, the subject will provide the skills necessary to formulate and critically assess the theoretical literature.

### Prescribed Text

The prescribed textbook is *The Theory of Industrial Organization* by Jean Tirole. The Handbooks of Industrial Organisation are another useful resource and are available through CU at <http://www.sciencedirect.com/science/handbooks/1573448X>. Additional reading may be assigned during the semester. Any additional reading will be listed on the course website.

### Assessment

The assessment of this subject consists of three components:

Each student will be required to complete a referees report on one piece of assigned reading. No two students may select the same paper. The report should comprise a 2-4 page typed critique of the paper, and a 15-20 minute presentation to be delivered in class. (Students are encouraged to use media, such as overhead projectors or PowerPoint, to facilitate their presentations.) Further details will be provided in class.





- Klemperer, "The Competitiveness of Markets with Switching Costs", *RAND* (1987), 138-150.
- Maskin & Tirole, "A Theory of Dynamic Oligopoly, II: Price Competition, Kinked Demand Curves, and Edgeworth Cycles", *Econometrica* (1988), 56, 571-599.
5. Oligopoly III: Constrained Coalitional Price Setting
- Byford "A Constrained Coalitional Approach to Price Formation"
- Byford "Spatial Competition with Discrete Players"
- Guesnerie & Oddou, "Second Best Taxation as a Game", *JET* (1981), 25, 679-711.
- Hamilton, MacLeod & Thisse, "Spatial Competition and the Core", *QJE* (1991), 106, 925-937.
6. Mergers, Entry and Exit
- Tirole Ch. 8-9
- Aghion & Bolton, "Contracts as a Barrier to Entry," *AER* (1987), 77, pp. 388-401.
- Cabral, "Horizontal mergers with free-entry: why cost efficiencies may be a weak defense and asset sales a poor remedy", *IJIO* (2003) 21, 607-623.
- Cabral & Riordan, "The Learning Curve, Market Dominance, and Predatory Pricing," *EMA* 62, 1115-1140.
- Farrell & Shapiro, "Horizontal Mergers: An Equilibrium Analysis", *AER* (1990), 107-126.
- Gowrisankaran, "A dynamic model of endogenous horizontal mergers", *RAND* 30(1), 56-83.
7. Vertical Contracting & Vertical Integration and Foreclosure
- Tirole Ch. 4
- Bernheim & Winston, "Exclusive Dealing", *JPE* (1998) 106(1), 64-103.
- Ordover, Saloner & Salop, "Equilibrium Vertical Foreclosure", *AER* (1990) 80(1), 127-142.
- Rey & Tirole (forthcoming), "A Primer on Foreclosure", in: M. Armstrong and R. Porter (eds.), *Handbook of Industrial Organization III*.
- Salop & Scheiman, "Raising Rivals' Costs", *AER* (1983) 73(2), 267-271.
- Whinston, "Tying, foreclosure, and exclusion," *AER* (1990) 80(4), 837-859.

## Procedures

1. If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and,

<http://www.colorado.edu/disabilityservices>

Disability Services letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at,

<http://www.colorado.edu/disabilityservices>

2. Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. You must inform me at least seven days in advance of any conflict due to a religious observance in order for alternative arrangements to be made. See full details at,

[http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

3. Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty has the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. See policies at:

<http://www.colorado.edu/policies/classbehavior.html>

[http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

4. All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at:

<http://www.colorado.edu/policies/honor.html>

<http://www.colorado.edu/academics/honorcode/>

5. The University of Colorado Policy on Sexual Harassment applies to all students, staff and faculty. Sexual harassment is unwelcome sexual attention. It can involve intimidation, threats, coercion, or promises or create an environment that is hostile or offensive. Harassment may occur between members of the same or opposite gender and between any combinations of members in the campus community: students, faculty, staff, and administrators. Harassment can occur anywhere on campus, including the classroom, the workplace, or a residence hall. Any student, staff or faculty member who believes s/he has been sexually