

## **Introduction to Industrial Organization Fall 2019 Syllabus**

**Lectures:** Thursdays, 9:10-12:10  
Social Science Building 608  
**Instructor:** Jian-Da Zhu  
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Office Hours: Thursdays, 15:30-16:30

**Course Description:** This course provides the introduction to Industrial Organization (IO), including the study of the market structure, the theory of the firm, and some other important topics in IO. The focus will be on some basic theoretical models and related empirical studies.

**Course Objectives:** The goal is to familiarize students with different market structures and to provide some related topics for research in the future.

**Prerequisites:** Microeconomics I and II (ECON 2001, 2002), Statistics (ECON2022), and Introductory Econometrics are required.

**Recommended Textbooks:**

- Dennis W. Carlton and Jeffrey M. Perloff. *Modern Industrial Organization (4th Edition)*, Pearson/Addison Wesley, 2005.
- Jean Tirole. *The Theory of Industrial Organization*, Cambridge, MA: MIT Press, 1988.

**Course Requirements and Grading:** The requirement is that students should do the homework and participate in the discussion every week. Grades will be based on:

- Homework (30%).
- Class participation (30%).
- Final project (due date: **Jan 16, 2020**) and presentation (scheduled on **Jan 2, 2020** or **Jan 9, 2020**) (40%).

Late term paper or homework will not be accepted for any reason. For the final project, you need to talk to me about the topic before **Oct 17, 2019**.

**Course Outline:**

Week	Date	Topics
1	Sep 12	Introduction to this course and industrial organization
2	Sep 19	Perfect competition, monopoly, and dominant firm
3	Sep 26	Static oligopoly
4	Oct 3	Dynamic oligopoly
5		<i>(No Class)</i>
6	Oct 17	Monopolistic competition * <b>Topic for the final project</b>
7	Oct 24	Demand estimation
8	Oct 31	Analysis after demand estimation, and mergers
9	Nov 7	Price discrimination
10	Nov 14	Price dispersion and search
11	Nov 21	Dynamic pricing
12	Nov 28	Entry and market structure
13	Dec 5	Strategic incumbents and entry
14	Dec 12	Vertical relationship
15	Dec 19	Retail chain
16	Dec 26	Peer-to-peer markets
17	Jan 2	Term paper presentation
18	Jan 9	Term paper presentation (if needed)