

TSE 5031
Microeconomic Analysis

2022/09/13

Keywords: competitive market, general equilibrium, Pareto efficiency, monopoly, price discrimination, oligopoly, game theory

關鍵字：競爭市場，一般均衡，柏拉圖效率，獨佔廠商，差別取價，寡佔市場，賽局理論

Time: Tuesday T7T8, Tuesday 3:30-5:20pm

Classroom: CCI A9 (育成 A9)

Instructor:

Hwei-Lin Chuang, email: hlchuang@mx.nthu.edu.tw, office: TSMC715, office hours: by appointment

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Teaching assistant: TBD

Course website: Tsing Hua E-learning system: elearn

Introduction:

The course Microeconomic Analysis intends to apply more advanced tools, including algebra and calculus, to analyze various microeconomic issues. We will study consumers' constrained choice and demand as well as firms and their production. We will also evaluate the properties of markets, consumers' and producers' decisions in the markets and the implications for social welfare. Moreover, we will apply key microeconomic concepts to discuss real world public policies.

Required textbook:

Perloff, Jeffrey M. *Microeconomics – Theory and Applications with Calculus*, Global edition, 5th edition, Pearson, 2021.

Other readings: Journal articles

Instruction:

Most of the material will be lectured. Nevertheless, the students are encouraged to volunteer opinions and raise related issues in the classes. Besides, relevant policy issues will be brought into the class for discussion.

Topics:

Week 1: Supply and demand

Week 2&3: A consumer's constrained choice

Week 4: Demand

Week 5: Consumer welfare and policy analysis

Week 6: Firms and production

Week 7: Cost

Week 8: Competitive firms and markets

Week 9: Midterm exam

Week 10&11: General equilibrium and economic welfare

Week 12: Monopoly

Week 13: Pricing and advertising

Week 14: Monopolistic competition

Week 15: Game theory

Week 16: Oligopoly

Week 17: Factor Market

Week 18: Final exam

Grading Policy:

The final grade will be determined by four graded homework, class participation, a midterm exam and a final exam. Each of the homework will comprise 10% of the final grade, class participation will comprise 10% while the midterm and the final exams will comprise 25% of the final grade, respectively.

Schedule for homework and exams:

The 1st homework: due on the class of Oct. 04

The 2nd homework: due on the class of Oct. 25

The 3rd homework: due on the class of Nov. 29

The 4th homework: due on the class of Dec. 20

The midterm exam: week 9, Nov. 08 (Tue)

The final exam: week 18, Jan. 10 (Tue)