

Micro Analysis

ECON5130, Fall 2022

Section L1: Mon, Wed, 9-11. Rm 2304, main building
Zoom 988-3679-1110, passcode 123
Section L2: Mon, Wed, 12-2. Rm 1014, LSK

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1. Description

Course Objectives

This course covers theories of modern microeconomics. It intends to introduce the main theories and methodologies of neoclassical microeconomics, game theory, and information economics. Students are required to understand the theories and concepts intuitively, to master the modeling techniques and derivations, and to solve simple versions of the problems.

Intended Learning Outcomes

Present micro theories. Introduce micro methodologies. Present many examples.

Teaching Approach

This course focuses on standard theories in advanced microeconomics. In class, I will display slides, which contain the crucial information (results and definition). I will also derive the models and proofs step by step. If necessary, I will also draw relevant graphs step by step.

2. Resources

Main Textbook

➤ Wang, S. (2018). *Microeconomic Theory*. 4th ed. Springer, \$1,020.

Supplement Textbooks

- 王苏生, 杨蔚 (2014). 高级微观经济学理论. 人民大学出版社. 京东网, 亚马逊, ¥32.
- Wang, S. (2016). *Microeconomic Theory*. 3rd ed., PDF copy, free.
- Varian, H.R. (1992). *Microeconomic Analysis*. Norton.
- Jehle, G.A.; Reny, P.J. (2011). *Advanced Microeconomic Theory*, 3rd ed (\$280).
- Mas-Colell, *et al.* (1995). *Microeconomic Theory*. Oxford University Press (\$370).
- Laffont, J.J. (1995). *The Economics of Uncertainty and Information*. MIT.
- Wang, S. (2008). *Math in Economics*. 1st ed. People University Publisher (\$33).
- Wang, S. (2015). *Math in Economics*. 2nd ed. World Scientific Publishing Co.

Course Website

www.bm.ust.hk/~sswang/5130/. Slides, reading materials and problem sets are there. All the slides shown in class are downloadable from this website.

3. Course Outline

Topics

- Topic 1: Neoclassical Economics. Chapters 1-4, 10 lectures
- Topic 2: Game Theory. Chapter 7, 5 lectures
- Topic 3: Market Information. Chapter 10, 5 lectures
- Topic 4: Mechanism Design. Chapter 11, 5 lectures

Course Prerequisites

Basic math knowledge and advanced optimization methods in Wang (2008, 2015).

Course Arrangement

Problem Sets: There is one problem set for each topic. No need to hand in the problem sets.

Exam: There is only one exam, which is on Dec 7, Wed, 10am-1pm.