

# Econ 3133 Microeconomic Theory II

Hong Kong University of Science and Technology  
Department of Economics

## Course Information

Instructor: Yangguang (Sunny) HUANG  
Email: [huangyg@ust.hk](mailto:huangyg@ust.hk)  
Class time: Wed Fri 13:30-14:50 (Room 4620)  
Office hour: Tue Thur 15:00-16:00 (LSK 6075)  
Course website: [canvas.ust.hk](http://canvas.ust.hk)

Teaching Assistant: Jason CHEUNG  
Email: [jtkcheung@ust.hk](mailto:jtkcheung@ust.hk)  
Tutorial time: Fri 18:00-18:50 (Room 6573)  
Office hour:

### Textbook:

Main: *Microeconomic Theory: Basic Principles and Extensions*, by Nicholson and Snyder  
Supplemental: *Intermediate Microeconomics with Calculus: A Modern Approach*, by Hal R. Varian.

### Grading:

- Homework assignments, 20%
- Midterm exam, 30%
- Final exam, 50%

For Homework, group study is encouraged, but you need to turn in your own homework.  
Final exam covers all the course materials (cumulative). Absence in an exam without a prior notification and a reasonable and verifiable justification will result in zero point for that part.

## Other Information

Academic Integrity and Honesty: <http://www.ust.hk/vpao/ug-guide/integrity/>.  
Learning Environment: [http://www.ust.hk/vpao/conduct/good\\_learning\\_experience.pps](http://www.ust.hk/vpao/conduct/good_learning_experience.pps).  
Center for Language Education: <http://cle.ust.hk/>.  
Math Support Center: <https://www.math.ust.hk/~support/>.

## Learning Goal

This is a sequel to the Microeconomic Theory I (Econ 3113). This two-part sequence is designed to provide a detailed study of basic topics in Microeconomics with a special emphasis on using a rigorous analytical approach. In Econ 3133, we study firms' behavior and market/strategic equilibrium in detail. Topics include firms' production and cost, competitive equilibrium and welfare, monopoly, game

theory and its application in Microeconomics. Emphases are placed on a rigorous analytical and mathematical approach, and multivariate calculus will be used extensively.

Per Program Intended Learning Objective (PILO) for [BSc in Economics and Finance](#), after completing this course, students will

1. Understand the logic, scientific basis, and critical thinking of economic analyses (PILO 1);
2. Have a sophisticated knowledge of economics, apply it to explain economic and social phenomena, and make sound economic decisions (PILO 4);
3. Develop ability to qualitatively analyze basic economic and social problems. Conduct basic economic analysis and research of the economy and society (PILO 4);
4. Collaborating effectively with your team members to answer questions in homework (PILO 5, 7);
5. Have informed ethical thinking based on rigorous economic and social analyses (PILO 8)
6. Be a lifelong user of economic analysis (PILO 9)

## Outline and Schedule

Topic	Reading	Number of lectures
Math Review	Ch. 1 and 2	1
Production Functions	Ch. 9	2
Cost Functions	Ch. 10	2
Profit Maximization	Ch. 11	2
Partial Equilibrium Competitive Model	Ch. 12	3
Monopoly	Ch. 14	3
<b>Midterm Exam*</b>		1
Game Theory	Ch. 8	4
Imperfect Competition	Ch. 15	4
Externalities and Public Goods	Ch. 19	3
<b>Final Exam</b>		

\*Midterm is currently scheduled on Oct 24<sup>th</sup>, but is subject to change due to teaching pace and issues such as Typhoon.