FIN2005: MICROECONOMICS

Fall 2023 National Taiwan University

Instructor Joonkyo Hong

Office Rm 729, Social Science Building

Contact TBD

Office Hours Monday 09:00 AM – 10:00 AM

Time Tuesday 2, 3, 4 (09:10 AM – 12:10 PM)

Venue Rm 101, Building No. 2, College of Management

T.A. TBD

Description This course aims to establish a rigorous foundation for the concepts covered in the Principle of Microeconomics. We will begin by analyzing how market participants (consumers and firms) make their choices within given constraints. Our initial focus will be on understanding a crucial mathematical concept called *constraint optimization*, which will help us gain insights into their decision-making behaviors. Moving forward, we will delve into the economic analysis of market participants' interactions. Specifically, we will first examine the notion of *market structure*, which influences firms' decisions. With a clear understanding of market structure, we will proceed to characterize the interaction between consumers and firms as *market equilibrium* and study the resulting market outcomes.

Textbook and Reference

Textbook: Hal R. Varian, *Intermediate Microeconomics: A Modern Approach*, Ninth Edition, W. W. Norton & Company

Reference: Jeffrey M. Perloff, *Microeconomics with Calculus*, Fourth Edition, Pearson.

Mathematics All students are expected to be knowledgeable about basic calculus (differentiation and integration). Microeconomics essentially involves a series of constraint optimization problems. In light of this, I will heavily rely on calculus to present the concepts of Microeconomics throughout this course.

Grading Policy Three components determine your grade: Exams, Case Homeworks and Case Presentation. The relative weights are as follows:

Exams	80%
Midterm 35%.	
Final 45%.	
Homework	20%
Four homework assignments, each accounting	
for 5%.	

Grades will be assigned based on a curve fitted to the cumulative final score.

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Course Outline

The schedule below is tentative. Any unexpected changes to the schedule will be announced in-class (as the course proceeds).
Digression
Consumer Theory I - Individual Optimization
Consumer Theory II - Demand and Consumer Surplus
Consumer Theory III - Intertemporal Demand, Demand under Uncertainty Chapters 10, 12 Saving, Present value, Contingent consumption, Risk Averseness
Theory of Production I - Production Function
Midterm October 24, 2023
Theory of Production II - Cost Minimization
Profit Maximization Chapter 20 Market Structure, Firm Conduct
Market Structure I - Monopoly
Game Theory - A tool for Oligopolistic competition
Market Structure II - Oligopolistic Market
Final December 19, 2023