

COURSE DETAIL

GAME THEORY

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Economics

UCEAP Course Number

150

UCEAP Course Suffix

UCEAP Official Title

GAME THEORY

UCEAP Transcript Title

GAME THEORY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides a rigorous introduction to game theory, the mathematical study of strategic interaction. Designed for advanced undergraduates, it equips students with the tools to model and analyze strategic situations across disciplines such as economics, political science, and law. Students learn to formulate strategic situations as non-cooperative games in normal or extensive form; analyze classic games such as the prisoner's dilemma, models of oligopolistic competition, and job market signaling; determine optimal strategies based on beliefs about others' behavior; apply core solution concepts to predict strategic behavior, including Nash equilibrium, Mixed-strategy Nash equilibrium, Subgame-perfect Nash equilibrium, Bayesian Nash equilibrium, and Perfect Bayesian equilibrium.

Language(s) of Instruction

English

Host Institution Course Number

ECON4037

Host Institution Course Title

GAME THEORY

Host Institution Course Details

<https://course.ntu.edu.tw/en/courses/114-1/29334>

Host Institution Campus

Host Institution Faculty

Social Sciences

Host Institution Degree

Host Institution Department

Economics

Course Last Reviewed

2025-2026

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