

## 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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