

Game Theory

Wuhan University

Fall 2022

Instructor: Xiaoxiao Hu (胡梹骁)
E-mail: sherryecon@qq.com
Office: 经管院 C151

TA: Yifang He (何逸芳)

Course Logistics

- Class Room: 4-301
- Class Hours: Tuesday 14:05 - 16:30 (6 - 8 节)
- Duration: September 6 - November 15 (Week 1 - 11)

Course Description

This course provides undergraduate students with foundation knowledge in game theory. Topics include dominance, Nash equilibrium, backward induction, repeated games, etc.

Course Materials

- Course Website: <https://xhu.github.io/teaching/game2022fall>
- References:
 - Gibbons, R. (1992). A Primer in Game Theory.
 - Open Yale Course: Game Theory (<https://oyc.yale.edu/economics/econ-159>)

Assessments

The grade will count the assessments using the following proportions:

- Class Participation and Assignments: 30%
 - 3 – 4 assignments in total.
 - We will use QQ group to collect assignments.
- Final Exam: 70%
 - Date: To be announced

Schedule

The schedule is tentative and subject to change.

Week 01, 09/06 : Introduction

Week 02, 09/13 : Dominated Strategies, Best Responses, Nash Equilibrium

Week 03, 09/20 : Applications

Week 04, 09/27 : Mixed Strategies

Week 05, 10/04 : Backward Induction

Week 06, 10/11 : Applications

Week 07, 10/18 : Subgame Perfect Nash Equilibrium

Week 08, 10/25 : Repeated Games

Week 09, 11/01 : Static Games of Incomplete Information

Week 10, 11/08 : Dynamic Games of Incomplete Information

Week 11, 11/15 : Applications