Syllabus

Course Description. This course provides an exposition of advanced microeconomic theory. Topics include preference and utility, consumer demand, production, expected utility, normal form game, extensive form game, externality, public good, oligopoly, and general equilibrium. Essential mathematical tools such as sequence, compact set, separating hyperplane, and fixed point will also be discussed.

Student are assumed to be familiar with basic differentiable calculus (as discussed in [C]).

Objectives of the course. After taking this course, students are expected to be familiar with basic results in advanced microeconomic theory. They should also be able to read papers in academic journals.

Readings. Teaching materials are mainly based on the textbook [M], with other supplementary readings.

Course Schedule

Discussion topics are scheduled as follows:

Weeks 1-2. Proof Methods, Preference and Utility ([M], Ch.1,3)
Weeks 3-5. Consumer Demand ([M], Ch.2,3)
Week 6. Production ([M], Ch.5)
Week 7. Mid-term
Week 8. Expected Utility and Risk Dominance ([M], Ch.6)
Week 9. Normal Form Game ([M], Ch.8)
Week 10. Extensive Form Game ([M], Ch.7,9)
Week 11. Market Power and Oligopoly ([M], Ch.12)
**Week 12.** Partial Equilibrium ([M], Ch.10),
   Externality and Public Good ([M], 11)

**Week 13.** General Equilibrium ([M], Ch.15-17)

**Week 14.** Final Exam

**Grade.** The course grade is counted as follows:

- Mid-term: 50%
- Final: 50%

**Academic Honesty.** For the guidelines on academic honesty, students are referred to the web-site on “Honesty in Academic Work: A Guide for Students and Teachers”

**References**


