

# Graduate microeconomics I

**Lecturer**

Georg KIRCHSTEIGER (Coordinator)

**Course mnemonic**

ECON-S510

**ECTS credits**

10 credits

**Language(s) of instruction**

English

**Course period**

First term

**Campus**

Solbosch

## Course content

In this course students learn the fundamental building blocks of microeconomic theory and game theory. Topics are the theories of consumption and production; decision under risk and uncertainty; partial equilibrium; general equilibrium (existence, uniqueness and stability) and the two welfare theorems; core and cooperative game theory; normal form games with complete and incomplete information; extensive form games.

## Objectives (and/or specific learning outcomes)

After the course the students should be able to use the basic tools of microeconomics and game theory to conduct their own research.

## Pre-requisites and co-requisites

### Required knowledge and skills

Mathematical prerequisites are convexity and optimization.

## Teaching method and learning activities

24 hours of lectures + homework/solving problem sets + Q+A sessions.

## Contribution to the teaching profile

This course contributes to the following program learning objectives:

LO 1.2 - Assess the quality of an economic research produced by others

LO 1.3 - Identify and analyse an issue using the relevant analytical tools and methods

LO 2.1 - Adopt a scientific approach to data collection, research and analysis and communicate results with clear, structured and sophisticated arguments

LO 2.2 - Display critical thinking and develop autonomous learning strategies and techniques

LO 3.2 - Thorough and critical ability to use empirical and statistical tools in economics

LO 4.1 - Work and communicate effectively as part of a team in an international and multicultural environment

## References, bibliography and recommended reading

Mas-Colell, A., M. D. Whinston and J. R. Green (1995) Microeconomic Theory, Oxford University Press.

Fudenberg, D. and J. Tirole (1992), Game Theory, MIT Press.

Carlsson, H. and E. van Damme (1993), Global Games and Equilibrium Selection, *Econometrica*, 989-1018

## Other information

### Place(s) of teaching

Solbosch

### Contact(s)

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## Programmes

Programmes proposing this course at the Solvay Brussels School of Economics and Management

MA-ECOE | **Master in Economics : Econometrics** | finalité Research in Economics/unit 1 and finalité Research in Economics and statistics/unit 1

Programmes proposing this course at the faculty of Sciences

MA-STAT | **Master in Statistics : General** | finalité Research General/unit 1