



Research  
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**CCA**

## Allievi Program

# ECONOMIC PRINCIPLES

## Spring 2025

Instructor: Lorenzo Maria Stanca

### Contact Information

Office: 209 at Collegio, 510 at Corso Unione.

email: [lorenzo.stanca@carloalberto.org](mailto:lorenzo.stanca@carloalberto.org)

Office Hours: TBD.

### Introduction

The course will provide a rigorous survey of microeconomic theory. In the first half of the course we will examine the economic behavior of consumers (and firms if time allows). The second half will be devoted to the study of selected topics: general and partial equilibrium game theory, market failures and information economics.

### Prerequisites

The course requires familiarity with standard mathematical techniques used in formal undergraduate courses such as multivariate calculus, constrained optimization. All the necessary concepts will be reviewed when necessary.

### Requirements and Grading

The grades will be determined as follows: midterm 40%, final exam 60%. There will be four (non-graded) problem sets.

## Textbooks

The main text for the course will be:

- Geoffrey Jehle and Philip Reny [JR]: Advanced Microeconomic Theory, 3rd edition.

I will distribute additional material, exercises, and lecture notes when needed.

## Tentative course schedule

I Introduction.

II Choice Under Certainty: Revealed Preference; Weak Axiom of Revealed Preference, representation of preferences.

Preferences and Utility; The Consumer's Problem; Indirect Utility and Expenditure Functions; Properties of Consumer Demand.

III Choice Under Uncertainty. Objective Probability and Expected Utility; Subjective Probability; Risk Aversion.

VI General Equilibrium. The Edgeworth Box Exchange Economy; Exchange Economies; The Efficiency of Competitive Equilibria; General Equilibrium with Production; Externalities and Public Goods.

VII Game Theory: Games with complete and incomplete information.

VIII Applications:

1. Financial markets
2. Marriage markets
3. Information Economics: Signalling and Moral hazard.