

PREPARATORY COURSES (academic year 2021-22)

The Faculty of Economics offers preparatory courses in Quantitative Methods and Economics addressed to all students starting the Master Program in Economics, Health Economics, and Finance and Insurance.

The preparatory courses are in English and their aim is to prepare students for profitably attending first year courses.

They start on September 13th, 2021 and will be held in remote mode using the Meet Platform at the following link:

<https://meet.google.com/piu-bxjt-tqn>

Participation is strongly recommended, particularly to students lacking a strong undergraduate background in quantitative methods and economics.

- 1) The preparatory course in
Quantitative methods (Mathematics and Statistics)

will be taught by dr. Filippo Petroni (filippo.petroni@uniroma1.it) with the following timetable:

- Monday 13th September, 4 - 6 pm
- Tuesday 14th September, 4 - 6 pm
- Wednesday 15th September, 4 - 6 pm
- Thursday 16th September, 4 - 6 pm
- Friday 17th September, 4 - 6 pm
- Monday 20th September, 4 - 6 pm
- Tuesday 21th September, 4 - 6 pm
- Wednesday 22th September, 4 - 6 pm
- Thursday 23th September, 4 - 6 pm
- Friday 24th September, 4 - 6 pm

- 2) The preparatory course in
Macro and Microeconomics

will be taught by dr. Teresa Barbieri (teresa.barbieri@uniroma1.it) with the following timetable:

- Monday 13th September, 2 - 4 pm
- Tuesday 14th September, 2 - 4 pm
- Wednesday 15th September, 2 - 4 pm

- Thursday 16th September, 2 - 4 pm
- Friday 17th September, 2 - 4 pm
- Monday 20th September, 2 - 4 pm
- Tuesday 21st September, 2 - 4 pm
- Wednesday 22th September, 2 - 4 pm
- Thursday 23th September, 2 - 4 pm
- Friday 24th September, 2 - 4 pm

The preparatory courses will focus on the following topics:

1) Quantitative methods (Mathematics and Statistics)

Mathematics

Functions and limits

Derivatives, differentiable functions

Introduction to functions of two variables and partial derivatives

Elements of linear algebra (matrix algebra and operations)

Integrals

Statistics

Definition of probability; axioms

Conditional probability and Bayes theorem

Random variables

Binomial distribution and Normal distribution

Law of large numbers

2) Macro and Microeconomics

Macroeconomics

National accounts

Macroeconomic equilibrium in closed and open economy

Aggregate supply and demand

Monetary and fiscal Policy

Unemployment

Microeconomics

Household consumption choice and market demand
Production, cost minimization, profit maximization and market supply
Market structure: perfect competition and monopoly
General equilibrium and efficiency

For information and questions, please contact:

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