



PREP-COURSE SYLLABUS 2023

MATHEMATICS | PROFESSOR FILIPPO MAURICI

DESCRIPTION

The Mathematics preparatory course aims to review the basic concepts of calculus and linear algebra and to provide students with the necessary tools to understand the notions of Economics where a quantitative approach is needed.

OUTLINE

- Mathematical models
- Real valued functions
- Complete study of a function: sketch graph
Economic applications
- Linear algebra
- Functions of several variables

LECTURE CONTENT

One variable calculus: foundations and applications

Exponents and logarithmic functions

Linear algebra

Functions of several variables

REFERENCES

[1] Mathematics for Economists, C. Simon-L. Blume. W.W. Norton & Company, Inc. ISBN 0-393-95733-0*

* Part I, Part II and Part III

PROFESSOR'S OFFICE HOURS

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