

### DESCRIPTION

This course offers a review of the basic knowledge of mathematics, focusing on economic applications for a deeper understanding and working knowledge.

### OUTLINE

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

### LECTURES

Lecture 1: One variable calculus: foundations.

Lecture 2: One variable calculus: applications.

Lecture 3: Exponential and logarithmic Functions

Lecture 4: Linear algebra

Lecture 5: Functions of several variables.

### REFERENCES

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

### PROFESSOR'S OFFICE HOURS

By appointment: [berkanacar@gmail.com](mailto:berkanacar@gmail.com)