



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Matematica Generale II - 1

2021-2-E1802M118-E1802M130M-T1

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#### Learning area

#### Learning objectives

The aim of the course is to give the main tools for the basics of series, integrals and linear algebra.

#### Contents

Sequences and series, integrals and linear algebra.

#### Detailed program

- 1) Sequences and series: definitions and analysis of the character of series by means of the main criteria.
- 2) Integrals: definitions, main results and computation.
- 3) Linear algebra: matrices, vectors and linear systems.

#### Prerequisites

Functions in one and more variables.

## **Teaching methods**

Lectures on line with period meetings in streaming.

## **Assessment methods**

The final exam (on line or not depending on the sanitary conditions) is composed by a written part (divided in open questions and exercises) and an oral part, both mandatory. The final mark takes into account both the valuations.

## **Textbooks and Reading Materials**

- "Successioni, serie e integrali", Manuale modulare di Metodi Matematici, vol. 5, a cura di Giovanna Carcano, edizioni Giappichelli Torino

- "Algebra lineare", Manuale modulare di Metodi Matematici, vol. 4, a cura di Maria Ida Bertocchi, edizioni Giappichelli Torino

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