



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Introduction to geodynamic and landscape evolution numerical modeling

2324-1-124R028

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#### Title

Introduction to geodynamic and landscape evolution numerical modeling

#### Teacher(s)

Pietro Sternai

#### Language

English

#### Short description

The course will focus on the solution of the momentum, continuity, energy, stream power and diffusion equations based on the finite differences approach. The objective is to learn how to develop simple geodynamic and landscape evolution numerical models that can be applied to a wide range of disciplines within the Earth Sciences. Numerical models will be developed using MATLAB or other programming softwares.

Evaluation: YES

**CFU / Hours**

2 CFU - 20 Hours (8h lecture - 12h laboratory training)

**Teaching period**

I semester: 22nd, 24th, 26th, 29th January 2024

**Sustainable Development Goals**

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