



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### **Introduction to Geodynamic and Landscape Evolution Numerical Modeling (Curricular - Geology)**

2021-94R-SCGA21

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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 computer practical sessions)

**Teaching period**

I semester

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