UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Advanced Stratigraphy and Regional Geology

2223-1-F7401Q087

Aims

Stratigraphic analysis of a sedimentary succession (eg Facies analysis). Knowledge and stratigraphic interpretation of the Italian sedimentary succession. Understanding the evolution of the Alps–Apennines orogenic couple

Contents

The Geology of Italy – The Lower and Upper Paleozoic. The Mesozoic (Triassic, Jurassic and Cretaceous). The Alps and the Apennines.

Detailed program

The Geology of Italy. Stratigraphic and geodynamic introduction. The sedimentary successions of the lower and upper Paleozoic (e.g. Sardinia and Carnia). The sedimentary rocks of the Mesozoic period (Triassic, Jurassic and Cretaceous) and their stratigraphic evolution with examples from Lombardy and central-south Italy. The stratigraphic and geodynamic evolution of the Alps and the Apennines through the relationships between tectonic activity, relief formation, drainage development, erosion distribution and long-distance sediment transfer during continental collision and orogenic growth.

Prerequisites

No prerequisites

Teaching form

Lectures in the classroom and field work on the Southalpine sedimentary succession.

Textbook and teaching resource

Scientific articles provided by the teacher during the lessons. Resources online.

Semester

Semester 2°

Assessment method

The skills provided during the frontal lessons will be evaluated in an oral exam.
The evaluation in general will concern both the stratigraphic sequences studied and those analyzed during the excursions, together with the ability to connect the topics covered in class.

Office hours

Wednesday from 14.30 to 17.30 (to schedule an appointment: eduardo.garzanti@unimib.it)

Sustainable Development Goals

QUALITY EDUCATION