UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Field Geology and Mapping

**2223-2-E3401Q036**

## Aims

Recognition of geometry and compositional characters of geological bodies, and their description in the field.

## Contents

Introduction to field geology and mapping.

## Detailed program

Field geology techniques: Description and classification of sedimentary, igneous and metamorphic rocks in the field. Quaternary deposits. Compass and basic stereonet techniques. Plotting contacts on base maps. Stratigraphic polarity in deformed successions. Stratimetric problems. Data collection and making standard geological maps. Stratigraphic logs and geological cross-sections from field data. Preparing geologic reports.
Field work: Several daily field excursions aimed at the recognition and mapping of sedimentary covers and crystalline basements.
Geological mapping I: Six full days of geological field survey, during which small groups of students (ca 15 students each teacher) will apply the basic field geology techniques to produce geological maps, cross-sections and illustratory notes in geologically simple areas of the Alps-Apennines system.

## Prerequisites

Having obtained 1 cfu relating to the Safety Course in the field

## Teaching form

Lessons
Laboratory experiences
Field work (several daily field excursion + six full days of geological field survey)

## Textbook and teaching resource

Notes provided by the lecturers

## Semester

second semester

## Assessment method

Written examination, oral examination + written reports also including the written report of the six-days geologic field work.
Written examination (duration: 1h): stereographic projections, plotting contacts on base maps.
Oral examination (usually the same day after the written examination): open questions on field geology techniques; measurement of planes and lines using a geologic compass; evaluation of the field notebook

## Office hours

Website: www.disat.unimib.it in teaching area you can find information about teachers cv, telephone number, University room or other place of work, office hours and e-mail.

## Sustainable Development Goals