



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Detrital Geochronology and Thermochronology (Curricular - Geology)

2122-94R-SCGA20

Title

Detrital geochronology and thermochronology

Teacher(s)

Igor M. Villa ; Marco G. Malusà

Language

English

Short description

Detrital thermochronology studies are increasingly employed to investigate the erosional evolution of mountain belts and perform paleotectonic reconstructions starting from the analysis of sedimentary rocks. However, simple predictions of the detrital thermochronology approach are often in conflict with observations in sedimentary basins. In this course, we illustrate the main geo/thermochronologic methods that are commonly applied to the analysis of sedimentary rocks (zircon U-Pb, mica Ar-Ar, apatite and zircon fission-track and (U-Th)/He) and we discuss the main factors that influence the final complexity of the detrital thermochronology record in a sedimentary basin. The basic principles illustrated in the first part of the course are applied to case histories from the Alps, the Apennines

and the Himalaya.

Evaluation: NO

CFU / Hours

2 CFU - 16 Hours (Lecture)

Teaching period

I semester
