

INSPIRING GLOBAL CHANGE SINCE 1222

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SCHOOL OF SCIENCE

# EARTH DYNAMICS

This Master's degree combines solid fundamental knowledge on the Earth's processes and history with cutting-edge geological techniques and data processing. Through applied research-oriented teaching, field activities and laboratories, the programme offers advanced education and training in the geosciences, fostering innovative thinking on diverse issues crucial for future societies such as the prevention and mitigation of geohazards, land planning and environmental management, climate change, prospection and sustainable exploitation of georesources, geomaterials, cultural heritage protection, planetary exploration.



UNIVERSITÀ  
DI PADOVA

# EARTH DYNAMICS

**LEVEL** Master

**SCHOOL** Science

**DEPARTMENT** Geosciences

**DURATION** 2 years (120 ECTS)

**START DATE** October

**LOCATION** Padua, Italy

**PROGRAMME COORDINATOR**

Nereo Preto

**WEB**

[www.unipd.it/en/earth-dynamics](http://www.unipd.it/en/earth-dynamics)

**APPLY.UNIPD.IT**



**TOP 150** 2025  
Earth and Marine Sciences



BY SUBJECT

## ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent) in Geological Science and Technologies, or related subjects with proven skills in geosciences
- English language: B2 level (CEFR) or equivalent

## PROGRAMME STRUCTURE

1st year: Quantitative Methods for Earth Scientists, Earth Surface Processes and Deposits, Earth Interior and Evolution, Past Life and Climates, Geological Resources for Sustainable Development, Carbonate Facies Analysis for Paleoclimate Reconstructions, Basin Analysis, Mineral Processes and Environmental Applications, Metamorphic Petrology, Isotope Geochemistry, Digital Geological Mapping; Earthquake Geology and Fault Mechanics.

2nd year: Rock Microstructures, Analysis of Mineral Resources and Industrial Derivatives, Planetary Geology, Remote Sensing for Geosciences, Exceptional Fossil Biotas and Mass Extinctions, Quaternary Geology, Anthropocene Sediments and Environments, Coastal Environments under Climate Change.

## TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,900 (3 instalments)

Scholarships and fee-waivers for international students available: [www.unipd.it/en/funding-and-fees](http://www.unipd.it/en/funding-and-fees)

## CAREER OPPORTUNITIES

Graduates work as geologists in private companies, public agencies, and NGOs or as free-lance professionals and consultants, in fields such as energy, environment and sustainability. The Master's degree provides a sound basis for accessing PhD courses in high-profile research universities worldwide.