



Visiting Professor Program Academic Year 2024/2025

TEACHING COMMITMENT: 12 hours

COURSE TITLE

Global Elemental Cycles and Environmental Change

TEACHING PERIOD

2nd term

SCIENTIFIC AREA

Sedimentary Geology, Geochemistry

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The primary purpose of the course is to provide students with an advanced understanding of biogeochemical cycles, their drivers and global change in ecosystems. Detailed knowledge of specific elemental cycles with the transformations and movement of chemical substances will be taught in an integrated perspective.

LEARNING OBJECTIVES

Knowledge and understanding:

- Demonstrate advanced understanding of biogeochemical cycles, their drivers and global change in ecosystems.
- Describe in detail specific elemental cycles with the transformations and movement of chemical substances in an integrated perspective.

- Describe the coupling of biogeochemical cycles of different elements to the multi-disciplinary nature of environmental change.

Judgement and approach:

- Assess current global and regional biogeochemical cycles in the perspective of climate variations.
- Evaluate recent human impact on the Earth's biogeochemical cycles in relation to climate variations.

VISITING PROFESSOR PROFILE

Il/La visiting professor deve avere comprovata esperienza nel campo della biogeochimica dei principali elementi negli ecosistemi acquatici e terrestri.

CONTACT REFERENT

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