

Soil Problems in Aridic and Semi-Aridic Regions (I002476)

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0

Study time 90 h

Contact hrs

30.0h

Course offerings in academic year 2022-2023

A (semester 2)

English

Gent

Lecturers in academic year 2022-2023

Diaz-Pines, Eugenio

WIEN03

lecturer-in-charge

Offered in the following programmes in 2022-2023

[International Master of Science in Soils and Global Change \(main subject Soil Biogeochemistry and Global Change\)](#)

crdts

3

offering

A

Teaching languages

English

Keywords

Position of the course

Contents

The course will be structured in the following thematic blocks:

- Ecology and fundamentals of arid and semiarid areas.
- The role of water
- Soil types
- Erosion and desertification
- Agriculture
- Soil greenhouse gases
- Fire
- Global Change

General theory will be presented along with recent research focusing on soils in arid and semiarid areas.

Initial competences

Basic knowledge on soils and ecosystems

Final competences

- 1 Students will be able to describe the main ecological and socio-economic features of arid and semiarid areas
- 2 Students will be able to identify and discuss limitations and opportunities of agricultural production (croplands and livestock) in arid and semiarid areas.
- 3 Students will be able to assess the relevance of soils in arid and semiarid areas for the production and consumption of greenhouse gases.
- 4 Students will be able to discuss potential consequences of global change in arid and semiarid areas

Conditions for credit contract

This course unit cannot be taken via a credit contract

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture: plenary exercises, Group work, Lecture

Extra information on the teaching methods

Interactive lecture

The course will be a combination of frontal lecture with group discussions on focal topics.

Learning materials and price

Relevant literature will be presented along the lecture and uploaded in Moodle

References**Course content-related study coaching****Assessment moments**

end-of-term assessment

Examination methods in case of periodic assessment during the first examination period

Oral examination

Examination methods in case of periodic assessment during the second examination period

Oral examination

Examination methods in case of permanent assessment**Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible

Calculation of the examination mark