

## Soil Problems in Aridic and Semi-Aridic Regions (1002476)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

<b>Course size</b>	<i>(nominal values; actual values may depend on programme)</i>		
<b>Credits</b> 3.0	<b>Study time</b> 90 h	<b>Contact hrs</b>	30.0 h

### Course offerings in academic year 2022-2023

A (semester 2)	English	Gent
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### Lecturers in academic year 2022-2023

Diaz-Pines, Eugenio	WIEN03	lecturer-in-charge
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### Offered in the following programmes in 2022-2023

	crdts	offering
<a href="#">International Master of Science in Soils and Global Change (main subject Soil Biogeochemistry and Global Change)</a>	3	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**

Group work, lecture, lecture: plenary exercises

**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**

**Evaluation methods**

end-of-term evaluation

**Examination methods in case of periodic evaluation during the first examination period**

Oral examination

**Examination methods in case of periodic evaluation during the second examination period**

Oral examination

**Examination methods in case of permanent evaluation**

**Possibilities of retake in case of permanent evaluation**

examination during the second examination period is possible

**Calculation of the examination mark**