

## Landscape Ecology (1002896)

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

**Credits** 6.0                      **Study time** 180 h

**Course offerings in academic year 2023-2024**

**Lecturers in academic year 2023-2024**

Sauer, Daniela

GOTTIN01 lecturer-in-charge

**Offered in the following programmes in 2023-2024**

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

| credits | offering |
|---------|----------|
| 6       | A        |

**Teaching languages**

English

**Keywords**

Soils / Relief / Microclimate

**Position of the course**

Mandatory course in the third semester

**Contents**

Components:

- 1 Landscape-ecological methods: lecture, 7 x 90 min.
- 2 Landscape-ecological theory: lecture, 7 x 90 min.
- 3 Landscape-ecological project (seminar with project-type components to be carried out in small teams, including measurements in the field): After a first visit to the study area, the students form small groups that develop their own hypotheses on relationships between relief, microclimate and soils in the study area, based on the general information provided in the lecture. In a next step, the groups develop a design to test their hypotheses in the field. In the end, each group prepares a poster on the outcomes of its work, and presents its findings to the other groups.

**Initial competences**

Basic knowledge on soils

**Final competences**

- 1 The students are able to generate hypotheses on the mutual relationships relief-soils-microclimate, to develop appropriate strategies for testing their hypotheses and to apply them in practice.
- 2 They are familiar with assessing soil properties and soil distribution patterns in landscapes, and with the measurement of microclimatic parameters.
- 3 The students have the competency to work on a research question in small international, culturally diverse teams, in a creative and outcome-oriented way. Thereby, they appreciate diverse cultural backgrounds and different approaches to handle a task. They are able to reflect on these in a constructive way and to jointly develop strategies for solving their research questions.

**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, seminar, independent work

**Learning materials and price**

No additional costs apply.

**References**

**Course content-related study coaching**

**Assessment moments**

continuous assessment

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

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

**Examination methods in case of permanent assessment**

Written assessment, oral assessment

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

examination during the second examination period is possible

**Extra information on the examination methods**

Preparation of a poster and presentation of the outcomes of the own work

**Calculation of the examination mark**

Quality of the poster: two thirds, oral presentation: one third

*Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.*