lök360 - Special Abiotic Factors (Soil/Water)

Module label
Special Abiotic Factors (Soil/Water)

Module code
lök360

Credit points
6.0 KP

Workload
180 h

Used in course of study
- Master's Programme Landscape Ecology > Vertiefungsmodule drittes Fachsemester

Contact person

Module responsibility
- Luise Dorothee Giani
- Janek Greskowiak
- Birte Junge
- Gudrun Massmann

Authorized examiners
- Luise Dorothee Giani
- Janek Greskowiak
- Birte Junge
- Gudrun Massmann

Module counseling
- Luise Dorothee Giani
- Gudrun Massmann

Entry requirements
Basic knowledge of Soil Science, Hydrogeology and Hydrochemistry

Skills to be acquired in this module

E: Hydrochemical modelling of water-rock interactions using PHREEQC: Impartment of knowledge into quantitative hydrogeochemistry and skills in hydrogeochemical modelling.

L: Major Soils of the World and excursion to the World Soil Museum in Wageningen (The Netherlands): Impartment of knowledge into distribution, properties and classification of soils of the world. Qualification to apply the World Reference Base for Soil Resources (WRB) and to identify the soils of the world.

E: Special soil science field and laboratory exercises: Impartment of knowledge into specific field and laboratory methods. Qualification to select and apply specific field and laboratory methods as well as to analyse and interpret results.


L: Major Soils of the World and excursion to the World Soil Museum in Wageningen (The Netherlands): Application of the international soil classification system "WRB", step-wise familiarization with soils and their properties as well as with the related landscapes and catenas (from polar to tropical soils), study of varnished profiles of globally distributed soils.

E: Special soil science field and laboratory exercises: Selection of current scientific objectives, construction of a sampling and investigation design, performance of field studies (preferably abroad) and laboratory analysis, analysis and interpretation of results.

Reader's advisory

International soil classification system for naming soils and creating legends for soil maps. World Soil Resources Reports No. 106. FAO, Rom; [www.fao.org/3/a-i3794e.pdf](http://www.fao.org/3/a-i3794e.pdf)

-see also announcements in StudIP

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- Modullevel
- Modulart
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- Vorkenntnisse / Previous knowledge

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| Total time of attendance for the module | 140 h |