Iök240 - Functional ecology of communities in heterogeneous landscapes

Module label: Functional ecology of communities in heterogeneous landscapes
Module code: Iök240
Credit points: 15.0 KP
Workload: 450 h

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

Contact person:
- Module responsibility
  - Michael Kleyer

Authorized examiners:
- Michael Kleyer

Entry requirements:

Skills to be acquired in this module:
- Technical skills in ecological field experiments, determination of plants in the field, phytosociological records, soil inventories, biomass determination and determination of biological characteristics
- Technical skills in laboratory work, statistics
- Skills in mapping plants and animals, application of GIS, spatial statistics
- Advanced knowledge of spatial ecology and the conditions of survival in heterogeneous landscapes as well as knowledge of functional ecology; assessment of academic voids between theory and empiricism
- Skills in independently dealing with ecological literature and information, respectively

Ranking/position of the module within the course of studies:
The module imparts action-oriented and theoretical knowledge of the conditions of survival in plant and animal species in heterogeneous landscapes. It serves the prognosis of impacts on the biodiversity caused by environmental changes. This represents a crucial qualification for environmental planning and habitat restitution projects.

Module contents:
- Practical training in the field and in the laboratory, practical training in statistics
- Functional ecology of communities in spatio-temporally heterogeneous landscapes:
  - Literature analyses
- Functional plant ecology: Biological characteristics related to disturbances and soil resources
  - (laboratory analyses, statistical analysis)

Reader's advisory:
Literature will be announced during the preparatory course and is contingent on the latest developments in the research field.

Links:
https://www.uni-oldenburg.de/en/landeco/

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Module level: MM (Mastermodul)
Modulart: Wahlpflicht

Lern-/Lehrform / Type of program: S/U
Vorkenntnisse / Previous knowledge:

Examination:
Final exam of module
- Time of examination
  - Type of examination
    - a) Seminar paper (weighting 20 %)
    - b) Specialized practical exercise (weighting 80 %)

Course type:
- Comment
  - SWS
  - Frequency
  - Workload attendance
  - Exercises
    - Comment 8.00
    - Frequency 112 h
    - Workload attendance 112 h
  - Seminar
    - Comment 2.00
    - Frequency 28 h
    - Workload attendance 28 h
  - Total time of attendance for the module
    - Comment 140 h