Module label: Advanced Animal Ecology
Module code: lök350
Credit points: 9.0 KP
Workload: 270 h

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

Contact person:
- Rolf Niedringhaus
- Ellen Kiel

Entry requirements:
Basic knowledge of taxonomy + determination of mainly vertebrates, basic skills in faunistic field methods, L Animal Ecology

Skills to be acquired in this module:

L Special Aquatic Ecology
- Ecology of typical floodplain water systems (mainly old water bodies and temporary water bodies);
- Description of the decisive processes in floodplain and water system dynamics as well as the expressivity of the (faunistic) biodiversity;
- Description of the ecological conditions and colonisation processes relevant to questions of nature protection, aspects of biodiversity as well as habitat preference and population development of typical floodplain species.

E Special Aquatic Ecology
- Familiarization with the course of a planning process on the basis of an exemplary project in Northwest Germany; independent development of a concept of methods for assessing the faunistic actual state and subsequent realization in the field; scientific documentation and ecologically relevant assessment of the situation in the project area using selected indicator groups (scientific determination of selected taxa); preparation of final expert opinions on the project

L Applied Animal Ecology
- Qualification for preparing a professional zooecological contribution within the scope of an expert opinion; familiarization with the most important faunistic indicator groups for scientific objectives relevant to a project

Module contents:

L Special Aquatic Ecology
- Ecology of typical floodplain water systems (mainly old water bodies and temporary water bodies);
- Description of the decisive processes in floodplain and water system dynamics as well as the expressivity of the (faunistic) biodiversity;
- Description of the ecological conditions and colonisation processes relevant to questions of nature protection, aspects of biodiversity as well as habitat preference and population development of typical floodplain species.

E Special Aquatic Ecology
- Description of legal and planning procedures based on a case study; development and realization of a concept of methods for assessing the faunistic current status; scientific documentation (determination of taxa), analysis (determination and classification of species-related characteristics of the taxa relevant to the planning) and ecologically relevant assessment of the situation in the project area;
- Final expert opinion on the project

L Applied Animal Ecology
- Importance of professional zooecological contributions within the scope of ecologically relevant planning; legal and qualified arguments; regulations for the conservation of species under national and international law; faunistic indication: complex of problems related to vicarious species, well-founded selection of indicator groups
- Principles of developing a concept of sampling and of performing field work; description of standard methods of sampling and analysis, essential aspects of a professional zooecological contribution for an expert opinion on a project; detailed description of the most important faunistic indicator groups for scientific objectives relevant to a project

Reader’s advisory
- See announcements in StudIP

Languages of instruction
- German, English

Duration (semesters)
- 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Modullevel: MM (Mastermodul)
Modulart: Wahlpflicht
Lern-/Lehrform / Type of program
Vorkenntnisse / Previous knowledge

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Total time of attendance for the module: 84 h