**Iök350 - Advanced Animal Ecology**

**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**

**Module responsibility**
- Rolf Niedringhaus
- Ellen Kiel

**Authorized examiners**
- Ellen Kiel
- Rolf Niedringhaus

**Module counseling**
- 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**
The module imparts general and special knowledge of the ecology of typical floodplain water systems with special emphasis on floodplain dynamics and the resulting processes related to those water systems. Floodplain development and (faunistic) biodiversity are further main topics comprising e.g. the explanation of ecological conditions and colonisation processes and referring to questions of nature protection, examining the habitat preference of selected species and describing the 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
Reference text | Special Animal Ecology (9 CP) integrates the courses of the module Special Aquatic Ecology (6 CP).
Students graduating in Special Animal Ecology cannot graduate in Special Aquatic Ecology.
Modullevel | MM (Mastermodul)
Modulart | Wahlpflicht
Lern-/Lehrform / Type of program | Vorkenntnisse / Previous knowledge

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<td>Exercises</td>
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**Total time of attendance for the module**
84 h