Iök350 - Advanced Animal Ecology

Module label: Advanced Animal Ecology
Module code: Iök350
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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<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
<th>Special exercise or Assignment</th>
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<td>Special exercise or Assignment</td>
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### Total time of attendance for the module
84 h