### S139 Freshwater & Wetland Ecosystems – Field Studies

**Coordinator:** Prof. Dr. K. Dierßen  
**Teaching Staff:** Prof. Dr. K. Dierßen, Prof. Dr. Brendelberger  
**Section for SSE:** E - Open Studies  
**Section for EM:** B6 - Ecohydrology and Geoeconomy

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
<th>Credit Points</th>
<th>Term (Semester)</th>
<th>Language of Tuition</th>
<th>Class Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact time overall</td>
<td>52</td>
<td>6 ECTS</td>
<td>2 Summer</td>
<td>English</td>
<td>16</td>
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<tr>
<td>Independent study</td>
<td>128</td>
<td>None</td>
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<td>Overall workload</td>
<td>180</td>
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**Teaching Units:**

- **Lecture**  
  - **Title:** Freshwater & Wetland Ecosystems – Field Studies  
  - **Teaching Staff:** Prof. Dr. K. Dierßen, Prof. Dr. Brendelberger  
  - **Contact time:** 26 hours

- **Exercise / Excursion**  
  - **Title:** Freshwater & Wetland Ecosystems – Field Studies  
  - **Teaching Staff:** Prof. Dr. K. Dierßen, Prof. Dr. Brendelberger  
  - **Contact time:** 26 hours

**Prerequisites:** None

**Competences the module has been designed to develop:**

- **Mastery of subject matter:** medium  
- **Mastery of methods:** medium  
- **Application of knowledge and understanding:** medium  
- **Problem solving competences:** medium  
- **Communication competences:** medium  
- **Learning competences:** medium
Content:
This module focuses on the structure and function of water ecosystems and wetlands. Focus will be analysis of direct interaction between ecosystem types of special importance for nature and resource conservation. Special attention will be given to the reactions of biocenosis to anthropogenic environmental changes. Students will organise and conduct lab projects in groups, as well as participate in excursions. Reports about data management, analysis and presentation method mark the end of each teaching unit.

Learning outcomes:
Students are able to measure principle ecological processes (e.g. flood dynamics, sedimentation, primary production, etc.) within ecosystems and to recognize the triggering biotic and abiotic structures. They are able to evaluate the possibilities, limits and informative value of field data for ecosystem conservation and management.

References:


Recommended previous knowledge:
Basic knowledge of biology, chemistry, plant alimentation and plant cultivation

Teaching media:
PPT, field work

Assessment:
Protocol: 100%

Contact details of module coordinator:
Prof. Dr. K. Dierßen
University of Kiel - Institute for Ecosystem Research
Department Geobotanics
Oshausenstr. 75
24118 Kiel
Germany
Room: 308
Phone: +49 (0)431 880-3951
Fax: +49 (0)431 880-4083
Mail: kdierssen@ecology.uni-kiel.de