**bio880 - Skills in Plant Systematics**

<table>
<thead>
<tr>
<th>Module label</th>
<th>Skills in Plant Systematics</th>
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<tbody>
<tr>
<td>Module code</td>
<td>bio880</td>
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<tr>
<td>Credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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<tr>
<td>Used in course of study</td>
<td>• Master's Programme Biology &gt; Skills Modules</td>
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<td>Contact person</td>
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**Module responsibility**
- Dirk Carl Albach

**Authorized examiners**
- Dirk Carl Albach
- Klaus Bernhard von Haagen
- Thijs Janzen

**Module counseling**
- Klaus Bernhard von Haagen

**Entry requirements**

**Skills to be acquired in this module**
In this module, we provide the skills necessary to describe and distinguish species for floras and monographs/first publication of species. For that, an overview over the plant kingdom is provided. Further, various non-molecular methods of systematics are practiced, such as morphometry, SEM, identification key generation, nomenclature, species delimitation methods, and interpretation of phylogenetic analyses.

+ deepened biological expertise
++ deepened knowledge of biological working methods
++ data analysis skills
+ critical and analytical thinking
++ independent searching and knowledge of scientific literature
+ ability to perform independent biological research
++ data presentation and discussion in German and English (written and spoken)
+ teamwork
+ statistics & scientific programming

**Module contents**
In the seminar we provide an overview over the larger groups of plants and characters for their grouping. We analyse methods for phylogeny generation, angiosperm classification and description of new taxa.
In the exercises morphological characters are investigated in various ways and internet resources for further morphological characters presented. Species delimitation methods for molecular and morphological characters are used. Identification keys are generated and nomenclatural rules discussed.

**Reader's advisory**

**Links**

**Languages of instruction**
- German, English

**Duration (semesters)**
- 1 Semester

**Module frequency**
- 8

**Module level**
- MM (Mastermodul / Master module)

**Module art**
- Wahlmodul / Opportunity

**Lern-/Lehrform / Type of program**
- good knowledge of local flora

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<tr>
<th>Examination</th>
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<tr>
<td>Final exam of module</td>
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<td>1 presentation</td>
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<td>WiSe</td>
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<td>Exercises</td>
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**Total time of attendance for the module**
- 56 h