bio880 - Skills in Plant Systematics

Module label: Skills in Plant Systematics  
Module code: bio880  
Credit points: 6.0 KP  
Workload: 180 h

Used in course of study: Master's Programme Biology > Skills Modules

Contact person:

Module responsibility:
- Dirk Carl Albach

Authorized examiners:
- Dirk Carl Albach
- Klaus Bernhard von Hagen
- Thijs Janzen vom Hagen

Module counseling:
- Klaus Bernhard von Hagen

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:
Module capacity: 8
Modullevel: MM (Mastermodul / Master module)
Modulart: Wahlimodul / Opportunity

Lern-/Lehrform / Type of program:
Vorkenntnisse / Previous knowledge: good knowledge of local flora

Examination:
Time of examination: Final exam of module
Type of examination:
1 presentation
1 report

Course type:
Comment:
SWS:
Frequency:
Workload attendance:
Seminar:
Exercises:
Total time of attendance for the module:
28 h
28 h
56 h