

Module title		Abbreviation
Didactics Biology II: Special Didactics GMR		07-GMR-FDBIO-2-152-m01
Module coordinator		Module offered by
head of group Didactics of Biology		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
6	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In the seminar <i>Arbeitstechniken und Schulversuche (Methods and Experiments in the Classroom)</i>, students will be arranged into small teams and will perform a variety of experiments on classic topics in biology. The experiments, which will be tailored to the requirements of the respective type of school, will subsequently be assessed in class with regard to didactic aspects and/or will be integrated into concrete classroom situations. Students will thus acquire techniques and background knowledge that will enable them to deliver lively and motivating lessons to different age groups. The seminar <i>Freilandbiologie (Outdoor Biology)</i> will explore general aspects on how students may incorporate field trips to out-of-classroom learning environments into their teaching. In addition to the scientific identification and characterisation of plant and/or animal communities in their natural habitats, the seminar will discuss didactic and pedagogical criteria for the selection of out-of-classroom learning environments that are relevant for the respective type of school. In this context, the course will also discuss the opportunities and limitations of out-of-classroom learning. Designing practice-oriented teaching units, students will practise teaching the identification of indigenous animals and plants to fellow students and/or groups of pupils in selected out-of-classroom learning environments.</p>		
Intended learning outcomes		
<ul style="list-style-type: none"> - Ability to implement experiments typically performed in the biology classroom and to integrate them into activity and problem-based lessons. - Ability to define research methods in the natural sciences and to match these up with selected classroom experiments. - Ability to analyse and evaluate the practical implementation with experiments in the classroom as well as research methods in the natural sciences, taking didactic aspects into account. - Ability to evaluate the significance of original encounters with nature in out-of-classroom learning environments as key elements of biology lessons. - Ability to prepare and deliver a session in an out-of-classroom learning environment and to perform the respective follow-up work. - Ability to impart a knowledge of species and form in a didactically reduced manner that is tailored to the needs of the respective group of pupils. 		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) + S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
portfolio (approx. 30 hours) creditable for bonus		
Allocation of places		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 41 I Nr. 6		
Module appears in		
First state examination for the teaching degree Grundschule Biology (2015)		

First state examination for the teaching degree Realschule Biology (2015)
First state examination for the teaching degree Mittelschule Biology (2015)
First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))