

Module title		Abbreviation
Advanced Biology Course		07-GY-FBW-092-m01
Module coordinator		Module offered by
Dean of Studies Biologie (Biology)		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
8	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	By way of exception, additional prerequisites are listed in the section on assessments.
Contents		
<p>Students may complete the practical course <i>Schwerpunkt-Praktikum</i> either in zoology or in botany. The course will build on the knowledge and skills students have acquired in previous courses and will revisit selected aspects. Students will perform experiments to explore these aspects in more detail. The seminar will address classical and current topics in biology with students delivering presentations and discussing the respective topics.</p>		
Intended learning outcomes		
<p>Students completing the practical course in zoology will have become familiar with the circulatory system of different classes of vertebrates as well as with the internal structures of the organs of a range of vertebrates. In addition, they will know how to address problems in behavioural biology. Students completing the practical course in botany will become familiar with plant molecular physiology. They will learn how to investigate problems related to the development and adaptation of plants in/to different environmental conditions, using methods in molecular biology, cell biology and biophysics. In addition, students will become familiar with the challenges biotic and abiotic environmental factors pose to plants as well as with mechanisms for overcoming these. Students will be introduced to current topics in biology and will learn how to use research literature. They will be able to extract key facts from a scientific text and to present these in a comprehensible way.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
<p>This module has 2 components; information on courses listed separately for each component.</p> <ul style="list-style-type: none"> • 07-GY-FBW-B-1-092: Ü + S (no information on language and number of weekly contact hours available) • 07-GY-FBW-Z-2-092: Ü + S (no information on language and number of weekly contact hours available) 		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>This module has the following 2 assessment components. To pass the module as a whole students must pass one of the two assessment components.</p>		
<p>Assessment component to module component 07-GY-FBW-B-1-092: Übung im Schwerpunkt Botanik für das Lehramt Gymnasium</p> <ul style="list-style-type: none"> • 8 ECTS credits, method of grading: numerical grade • a) written examination (30-120 minutes) or b) log (10-30 pages) or c) oral examination of on candidate each (20-60 minutes) or d) oral examination in groups up to three candidates or e) presentation (20-45 minutes) or f) portfolio (30-120 hours total) • Other prerequisites: admission prerequisite to assessment: Regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. 		
<p>Assessment component to module component 07-GY-FBW-Z-2-092: Übung im Schwerpunkt Zoologie für das Lehramt Gymnasium</p> <ul style="list-style-type: none"> • 8 ECTS credits, method of grading: numerical grade • a) written examination (30-120 minutes) or b) log (10-30 pages) or c) oral examination of on candidate each (20-60 minutes) or d) oral examination in groups up to three candidates or e) presentation (20-45 minutes) 		

- Other prerequisites: admission prerequisite to assessment: Regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.

Allocation of places

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Additional information

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Workload

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Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 61 (1) 6. Biologie Schwerpunkt "Botanik"

§ 61 (1) 6. Biologie Schwerpunkt "Zoologie"

Module appears in

First state examination for the teaching degree Gymnasium Biology (2009)