

Module title		Abbreviation
Basics of Biology - Cytology and Anatomy		07-LA-BIO1-092-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)
11	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>The first part of the course will acquaint students with the elementary building blocks of life as well as biological categories. Building on this knowledge, the course will then discuss the cell, the smallest unit of life, starting with its macroscopic structure before moving on to its microscopic structure. The course will point out differences and similarities between prokaryotic cells (bacteria, archaeobacteria) and eukaryotic cells (animals, plants). Using the examples of plants and animals, the subsequent module components will introduce students to the phylogenetic diversity of eukaryotes. At the level of groups in the plant and animal kingdoms, students will acquire the fundamental knowledge necessary to understand the forms and functions of animal and plant organisms, with morphology and cytology being discussed in an evolutionary and ecological context. The contents of the module are relevant for biological disciplines at all levels of biological organisation. Students will also acquire and practise some of the fundamental preparation skills bioscientists are often required to possess.</p>		
Intended learning outcomes		
<p>Students will be familiar with the elementary building blocks of life, with biological categories as well as with the cell, the smallest unit of life, and its macroscopic and microscopic structure. They will understand the forms and functions of animal and plant organisms as well as morphology and cytology in an evolutionary and ecological context. Students will be able put their fundamental preparation skills into practice.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
<p>This module comprises 3 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> • 07-LA-BIO1-1-121: V + Ü (no information on SWS (weekly contact hours) and course language available) • 07-LA-BIO1-2-121: V + Ü (no information on SWS (weekly contact hours) and course language available) • 07-LA-BIO1-3-121: V + Ü (no information on SWS (weekly contact hours) and course language 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>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p>		
<p>Assessment in module component 07-LA-BIO1-1-121: Structure and Function of Cells (Lecture, Practice) Structure and Function of Cells (Lecture, Practice)</p> <ul style="list-style-type: none"> • 3 ECTS, Method of grading: numerical grade • written examination (30 to 60 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. 		
<p>Assessment in module component 07-LA-BIO1-2-121: The Plant Kingdom (Lecture, Practice) The Plant Kingdom (Lecture, Practice)</p> <ul style="list-style-type: none"> • 4 ECTS, Method of grading: numerical grade • written examination (30 to 60 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.

Assessment in module component 07-LA-BIO1-3-121: The Animal Kingdom (Lecture, Practice) The Animal Kingdom (Lecture, Practice)

- 4 ECTS, Method of grading: numerical grade
- written examination (approx. 30 to 60 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)

§ 41 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren"

§ 41 (1) 2. "Physiologie der Pflanzen und Tiere"

§ 61 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren"

Module appears in

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

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

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

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

First state examination for the teaching degree Mittelschule Biology (2013)