

<b>Module title</b>		<b>Abbreviation</b>
Evolution and the Animal Kingdom (AF)		07-1A1TI-AF-141-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Professorship of Zoology at the Department of Electronmicroscopy		Faculty of Biology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
<p>This module will address one of the central issues of biology: evolution. Fundamental mechanisms and hypotheses will be discussed, and students will be introduced to major phylogenetic reconstruction methods. Using the example of animals, students will be introduced to the phylogenetic diversity of eukaryotes. At the level of groups in the animal kingdom, students will acquire the fundamental knowledge necessary to understand the forms and functions of animal organisms, with morphology and cytology being discussed in an evolutionary and ecological context.</p>		
<b>Intended learning outcomes</b>		
<p>- Ability to recognise evolution as the driving force behind the phylogeny of species. - Familiarity with the concepts of phylogenetic relationships between plants/animals. - Familiarity with the distinguishing characteristics and major representatives of groups in the animal kingdom. - Ability to select those animal organisms that are most suitable for investigating particular scientific issues. - Familiarity with the components and functioning of microscopes. - Fundamental skills in the interpretation of macroscopic and histological preparations by light microscopy. - Fundamental preparation skills.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V + Ü (no information on SWS (weekly contact hours) and course language available)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
--		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor' degree (1 major) Computer Science (2014)		
Bachelor' degree (1 major) Mathematics (2014)		
Bachelor' degree (1 major) Computational Mathematics (2014)		