

<b>Module title</b>		<b>Abbreviation</b>
Developmental Biology of Animals		07-3A3EBIOTI-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Biologie (Biology)		Faculty of Biology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
4	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.
<b>Contents</b>		
<p>In this module, students will acquire theoretical and practical background knowledge on animal developmental biology. The following topics will be covered: early embryonic development of various model organisms (amphibians, nematodes, Drosophila, mouse) and relevance for the systematics of animals, gametogenesis (production of spermatozoa and ova), differential gene expression, cell growth and molecular regulation of cell development, organogenesis, pattern formation, carcinogenesis, stem cell research and cloning, metamorphosis (amphibians, insects), eco-devo, evo-devo.</p>		
<b>Intended learning outcomes</b>		
<p>1. Fundamental concepts in developmental biology. 2. Embryonic and postembryonic development of selected model organisms (pattern formation). 3. Molecular mechanisms as well as control of cell development. 4. Interdisciplinary connections between developmental biology and other branches of biology. 5. Cell biology of cotyledon, cancer and stem cells as well as gametes. 6. Interrelations between ontogeny and evolution/environment. 7. Physiological aspects of the developmental processes discussed.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (1) + Ü (3)		
<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) creditable for bonus		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 61   Nr. 5		
<b>Module appears in</b>		
<p>Bachelor' degree (1 major) Biology (2015)          Bachelor' degree (1 major) Mathematics (2015)          Bachelor' degree (1 major) Biomedicine (2015)          Bachelor' degree (1 major) Computational Mathematics (2015)          Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)          Bachelor' degree (1 major) Biology (2017)          Bachelor' degree (1 major) Biomedicine (2018)          Bachelor' degree (1 major) Biomedicine (2020)</p>		