

<b>Module title</b>		<b>Abbreviation</b>
Principles of Biochemistry		07-3A3BC-102-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Plant Physiology and Biophysics		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: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.
<b>Contents</b>		
<p>With the module component <i>Makromoleküle (Macromolecules)</i> as a starting point, the lecture will provide students with deeper insights into the molecular biology and biochemistry of prokaryotes and eukaryotes. Students will become familiar with fundamental principles of molecular biology (replication, transcription, splicing and translation) and the biochemistry of carbohydrates, lipids, proteins and nucleic acids. Experiments will be performed on selected topics that were discussed in the lecture. The exercise will cover practical aspects of lab work (PCR, DNA and protein gel electrophoresis, blot, enzyme kinetics and detection, protein isolation).</p>		
<b>Intended learning outcomes</b>		
Students are familiar with the fundamental principles of biochemistry.		
<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. 30 to 60 minutes) including multiple choice questions		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
<p>Bachelor' degree (1 major) Biology (2011)          Bachelor' degree (1 major) Biology (2010)          Bachelor' degree (1 major) Mathematics (2012)          Bachelor' degree (1 major) Mathematics (2013)          Bachelor' degree (1 major) Computational Mathematics (2012)          Bachelor' degree (1 major) Computational Mathematics (2013)          Bachelor's degree (1 major, 1 minor) Biology (Minor, 2010)</p>		