

Module title		Abbreviation
Biochemistry 1		o8-BC1-152-m01
Module coordinator		Module offered by
holder of the Chair of Biochemistry		Chair of Biochemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The module imparts the basic knowledge of biochemistry by lectures and tutorials. Main topics of the module Biochemistry 1 are particularly the biochemistry of proteins (amino acids, peptide bond, primary, secondary, tertiary and quaternary structure), catalytic strategies and enzyme kinetics, carbohydrate metabolism (glycolysis, gluconeogenesis, citric acid cycle, cellular respiration, photosynthesis), fatty acid metabolism (beta-oxidation, fatty acid synthesis), nucleotide metabolism, urea cycle and metabolism of amino acids. Additionally the modul conveyes basic knowledge about the structure of DNA and the basics of passing and transformation of genetic information (central dogma).</p>		
Intended learning outcomes		
<p>The student has basic knowledge in the covered subject areas of biochemistry. He/She is able to describe the basic biochemical processes in cellular systems.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
V (2) + Ü (1)		
Method of assessment (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 to 90 minutes)		
Allocation of places		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 42 I Nr. 2 § 62 I Nr. 2		
Module appears in		
<p>Bachelor' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Biology (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Functional Materials (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Biology (2017) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017) Module studies (Bachelor) Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2019)</p>		



Module studies (Bachelor) Orientierungsstudien (2020)

First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))