

Institut für Chemie und Biochemie Module descriptions for the bachelor program Chemistry for teacher candidates

Module: Basics of	f Physical Chemis	try	
		sität Berlin/Department of Biology	, Chemistry, Pharmacy/Institute of
Chemistry and Biochem			
Module supervisors: L			
Entrance Requirement			
chemistry. They are at development of chemica	ble to describe basic th al reactions quantitative e able to work independ	nermodynamic processes, to give ly and are acquainted with the q	different areas in the field of physical e an interpretation of the time related uantum mechanical approach to atoms le chemical problems with an approach
Content: Introduction to phenomenological reac	thermodynamics via the tion kinetics and exper o electrochemistry and t tomic models and theory	imental methods for the determ he functioning of electrochemical	and equations of state, introduction to nination of rate constants of chemical cells, introduction to quantum theory of
Teaching methods	Hours of attendance (semester periods per week)	Forms of active participation	Work effort (hours)
Lectures	3	-	Presence (L)45Pre- and post-preparation (L)45
Tutorials	2	Solving assignments, Contributing to topic related discussions	Presence (T)30Pre- and post-preparation (T)30Exam preparation and60
Language spoken in lecture		German	
Compulsory regular attendance		Lecture: attendance is recommended, tutorial: yes	
Work effort (total)		210 hours 7 CP	
Length of module		One semester	
Examination		Exam (180 minutes); The exam can also be conducted electronically	
Lecture is offered		Every semester	
Applicability		Bachelor study program Chemistry for Teaching Training Students, 60-CP-Module offer Chemistry, Bachelor study program biochemistry	

No responsibility is taken for the correctness of this translation of the German document found at

http://www.bcp.fu-berlin.de/studium-lehre/studiengaenge/ordnungen/bsc\_lehramt\_container/chemie\_bc\_la\_sto\_2013.pdf The English versions of the module descriptions are found at