

Module: Basics of Mathematics for Chemists			
University/Department/Institute: Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Institute of Chemistry and Biochemistry			
Module supervisors: Lecturers of the module			
Entrance Requirements: none			
Goals of Qualification: Students have acquired a basic understanding of mathematics to solve chemical assignments by using mathematical methods. They have acquired an overview of the analysis of variables and are able to use these methods.			
Contents: Complex numbers, the definition of functions and elemental functions, limiting values, sequences and series, differential and integral equations for functions of variables, Introduction to the analysis of functions of multiple variables, approach to solving common differential equations of the 1 st order			
Teaching methods	Hours of attendance (Hours per week)	Forms of active participation	Workload (hours)
Lecture	2	-	Presence (L) 30 Pre-, post-preparation (L) 30
Tutorial	2	Solving assignments, Contributions to topic related discussions	Presence (T) 30 Pre-, post-preparation (T) 30 Exam preparation and examination 30
Language offer of lecture		German	
Compulsory regular attendance		Attendance is recommended	
Workload (total)		150 hours	5 CP
Length of module		One semester	
Examination		Exam (180 minutes, grade: failed or passed) The exam can also be conducted electronically	
Lecture is offered		Every semester	
Applicability		Bachelor study program Chemistry, Bachelor study program Chemistry for teachers in training, 60-CP-Module offer Chemistry	