

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

Module: Organic Sy	nthetic Chemistry	and Synthesis Develop	ment	
University/Department/Ins Chemistry and Biochemistry		ät Berlin/Department of Biology,	Chemistry, Pharmacy/Institute	e of
Module supervisors: Lectu	urers of the module			
Entrance Requirements: r	none			
independently design synth methods to prepare C-X be	hetic strategies for mo onds and C-C single b	understand important synthetic oderately complex target molect bonds and multiple bonds and t synthetic routes by searching	cules. They know the most in the synthetic applications of	mportant pericyclic
equivalents, conversion of f (substituent effects), elimin variants (stereo-chemical "umpolung"-reactions, (syn	functional groups), mo- ation (E1/E2/E1cb) ar control), nucleophilic thesis of 1,n-difunctior	eactions, concepts of retrosyn dern radicalic reactions, electrop ad their stereo-chemical implica additions to the C=O double hal compounds, pericyclic reac upling, examples for basic and ad	ohilic aromatic secondary sub tions, ylides, Wittig-reaction bond, Dunitz-Bürgi-Lehn t tions, sextet rearrangement,	stitutions and their rajectory,
Teaching methods	Hours of attendance (Hours per week)	Forms of active participation	Workload (hours)	
Lecture	3	-	Presence (L) Pre-, post-preparation (L)	45 45
Tutorial	1	Solving assignments, Contributions to topic related discussions	Presence (T) Pre- , post-preparation (T) Exam preparation and examination	15 15 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 (120 minutes); The exam can also be conducted electronically		
Lecture is offered		Every semester		
Applicability		Bachelor study program Chemistry, Bachelor study program Biochemistry, Bachelor study program Chemistry for teachers in training, 60-CP-Module offer Chemistry		

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/chemie_container/03_bsc_chemie/chemie_bc_sto_2013.pdf The English versions of the module descriptions are found at

http://www.bcp.fu-berlin.de/en/studium-lehre/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html