

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

Module: Reaction M	echanisms in Org	ganic Chemistry		
University/Department/Institute: Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Institute of Chemistry and Biochemistry				
Module supervisors: Lectu	arers of the module			
Entrance Requirements: r	ione			
broad and cohesive overvi- knowledge of the reaction n to predict the effect of sub methods for the analysis of evaluate and interpret the c	ew of the reaction typ nechanisms, which is b stituents, solvents and reaction mechanisms lata sets obtained by t yay deepen their know	ted with the mechanisms of typi bes in organic chemistry and the based and ordered by the different d reactivity considering stereoch (e.g. reaction kinetics, stereoch hese methods. They solve assi ledge of the reaction mechanis is.	eir mechanisms. By crosslind nt chemical classes, students hemical aspects. They know emistry, isotope effect) and al gnments concerning the lectu	king their are able different re able to are topics
Oxidation/reduction), basic reactions, effects of solvent	s of thermodynamics s and substitution, Brö <sub>v</sub> 2 <sub>t</sub> to carboxylic acid o	s and their mechanisms (p and kinetics, implications for instedt- and Lewis-acids, typica derivatives) addition reaction (no d), redoxreactions	the stereochemical classifier examples for nucleophile su	cation of bstitution
Teaching methods	Hours of attendance (Hours per week)	Forms of active participation	Workload (hours)	
Lecture	3	-	Presence (L) Pre-, post-preparation (L)	45 45
Seminar	1	Solving assignments, Contributions to topic related discussions	Presence (S) Pre-, post-preparation (S) 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

 $http://www.bcp.fu-berlin.de/en/studium-lehre/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{eq:http://www.bcp.fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge/chemie/bachelor/modulbeschreibungen/index.html \label{fu-berlin.de/en/studiengaenge$