

Module: G2 General and Inorganic Chemistry		
Exam: G2 General and Inorganic Chemistry	LV.-No.:	ECTS-Points: 5 CP
Recommended Semester: 1st Semester	Module: Mandatory	Language: German
Responsible lecturer: Prof. Dr. Wigbert Hillebrand	Cycle: Winter Term	Registration information: LSF
Lecturer in charge: Prof. Dr. Wigbert Hillebrand		
Learning outcomes	Students are able <ul style="list-style-type: none"> • to explain basic concepts of general and inorganic chemistry • to explain the basics of chemistry of selected main group elements • to describe the basic principles and methods of chemistry • to identify and evaluate material relations, structures and binding modes of selected elements 	
Form of exam	Written exam (90min)	
Form of teaching	<ul style="list-style-type: none"> • Lecture • Training • Tutorial (optional, additional) 	
Course contents	<ul style="list-style-type: none"> • Atomic models • Classical forms of bonding in chemistry • Basic reaction types (acid, alkali, neutralization, redox, etc. pH value) • Stoichiometry and stoichiometric calculation • Essential information on the main group elements of the periodic system, edited target group-specific 	
Workload	Presence (4 SWS): Preparation and Follow-up: sum:	60 h 90 h 150 h
Requirements	None	
Literature	<ul style="list-style-type: none"> • Arni, A., (2003), Grundkurs Chemie I, Allg. u. Anorg. Chemie, Wiley-Verlag, Weinheim, Berlin (aktuellste Auflage) • Binnewies, M., (2004) et. al. Allgemeine u. Anorganische Chemie, Spektrum Akademischer Verlag, Heidelberg (aktuellste Auflage) • Christen, H. R., (1973) Grundlagen der allg. u. anorg. Chemie, Verlag Diesterweg Sauerländer, Frankfurt am Main • Mortimer, C. E., Müller, U., (2003), Chemie: Das Basiswissen der Chemie, Thieme-Verlag, Stuttgart 	