

Module title		Abbreviation
Chemistry of the Elements and Analytical Chemistry for Biochemistry Majors		o8-AS1-BC-132-m01
Module coordinator		Module offered by
lecturer of lecture "Chemie der Hauptgruppen-elemente" (Chemistry of Main-group Elements)		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
11	numerical grade	o8-AC1 (module component o8-AC1-4 only) and o8-OC3 (module component o8-OC3-2 only)
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module equips students with an advanced knowledge of the periodic table and selected elements. It focuses on bonding conditions, trends in the periodic table and the description and structure of elements. In addition, it introduces students to elementary organic chemistry, coordination chemistry and complex chemistry. The module gives students the opportunity to apply in practice the knowledge they have gained through the related lecture(s). After a safety briefing, the students autonomously conduct experiments in the laboratory. These experiments focus on different methods for the analysis of unknown substances.</p>		
Intended learning outcomes		
<p>Students are able to characterise main group elements and transition metal elements in terms of their structure, reactivity and fabrication. They are able to identify the coordination of the atoms. In addition, they have learned how to use the periodic table, an essential tool for chemists. Students are able to use different methods to analyse unknown substances. In addition, they are able to separate and analyse mixtures.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> o8-AN1-BC-2-132: P (no information on SWS (weekly contact hours) and course language available) o8-AS1-1-102: V + V (no information on SWS (weekly contact hours) and course language available) 		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p>Assessment in module component o8-AN1-BC-2-132: Analytical Chemistry (lab) for Biochemistry Majors</p> <ul style="list-style-type: none"> 5 ECTS, Method of grading: (not) successfully completed pre/post-experiment examination talks (Vor-/Nachtstate, approx. 15 minutes each), log (approx. 5 to 10 pages) Assessment offered: once a year, summer semester Language of assessment: German or English <p>Assessment in module component o8-AS1-1-102: Chemistry of the elements</p> <ul style="list-style-type: none"> 6 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English 		
Allocation of places		
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Additional information		
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Workload

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Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"

Module appears in

Bachelor' degree (1 major) Biochemistry (2013)