

Module title		Abbreviation
Chemistry of the Elements and Analytical Chemistry		o8-AS1-102-m01
Module coordinator		Module offered by
lecturer of lecture "Chemie der Hauptgruppenelemente" (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>German contents available but not translated yet.</p> <p>Das Modul vermittelt vertiefendes Wissen über das Periodensystem und ausgewählte Elemente. Schwerpunkte sind Bindungsverhältnisse, Trends im Periodensystem, Darstellung und Struktur von Elementen. Das Modul führt zudem in die Elementorganische, Koordinations- und Komplexchemie ein. Das Modul bietet die Möglichkeit, das Wissen der Grundvorlesung(en) praktisch anzuwenden. Nach einer Sicherheitseinweisung experimentieren die Studierenden selbstständig im Labor. Schwerpunkte sind verschiedene Analysemethoden mit unbekanntem Stoffen.</p>		
Intended learning outcomes		
<p>German intended learning outcomes available but not translated yet.</p> <p>Der/Die Studierende kann Hauptgruppenelemente und Übergangsmetall-Elemente hinsichtlich Struktur, Reaktivität und Herstellung charakterisieren. Er/Sie ist in der Lage, die Koordination der Atome zu erkennen und zu benennen. Zudem kann er/sie das Periodensystem als grundlegendes Werkzeug in der Chemie verwenden. Der/Die Studierende ist in der Lage, unbekannte Stoffe durch verschiedene Methoden zu analysieren. Zudem ist er/sie in der Lage, Gemische zu trennen und zu analysieren.</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-AN1-2-102: 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-AN1-2-102: Analytical Chemistry (lab)</p> <ul style="list-style-type: none"> 5 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams), assessment of practical performance, Nachtestate (post-experiment exams), log (5 to 10 pages) Assessment offered: once a year, summer semester Language of assessment: German, English <p>Assessment in module component o8-AS1-1-102: Chemistry of the elements 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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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) Chemistry (2010)

Bachelor' degree (1 major) FOKUS Chemistry (2011)