Module title			Abbreviation
Inorganic Chemistry 1 (teaching degree)			08-AC1-LA-102-m01
Module coordinator		**Module offered by**	
lecturer of lecture "Experimentalchemie" (Experimental Chemistry)		Institute of Inorganic Chemistry	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
20	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	By way of exception, additional prerequisites are listed in the section on assessments.	

Contents

German contents available but not translated yet.

Das Modul bietet einen Überblick über die elementaren Grundkenntnisse der Chemie. Schwerpunkte sind Teilchenebene, Metalle, Säure-Base-Reaktionen, Periodensystem, Chem. Gleichgewicht, Komplexometrie. Zudem führt das Modul in grundlegende Modellvorstellungen der Chemie ein und vermittelt Grundlagen der Anorganischen Chemie. Das Modul bietet die Möglichkeit, das Wissen der Vorlesung der Experimentalchemie sowie ihrer Erweiterung praktisch anzuwenden. Nach einer Sicherheitseinweisung experimentieren die Studierenden selbstständig im Labor. Schwerpunkte sind Sicherheit im Labor, einfache Labortechniken, Synthese von einfachen Stoffen sowie Analysen eines unbekannten Stoffes. Darüber hinaus bietet das Modul die Möglichkeit das Wissen aus dem Labor zu vertiefen.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Der/Die Studierende kann die Prinzipien des Periodensystems darstellen und kann daraus Informationen gewinnen. Er/Sie kann grundlegende Modelle des Aufbaus der Materie erklären. Chemische Reaktionen kann er/sie mit chemietypischer Formelsprache darstellen und durch Identifikation des Reaktionstyps interpretieren. Die Studierenden sind in der Lage, Funktionsweise und Anwendungsbereiche der wichtigsten quantitativen und qualitativen Analyseverfahren zu beschreiben. Der/Die Studierende ist in der Lage, grundlegende chemische Fragestellungen zu identifizieren und kann diese experimentell lösen. Hierfür kann er/sie die notwendigen stöchiometrischen Rechnungen durchführen und die chemischen Vorgänge fachgerecht schriftlich und verbal darstellen.

Courses (type, number of weekly contact hours, language — if other than German)

This module comprises 3 module components. Information on courses will be listed separately for each module component.

- 08-AC1-1-102: V + V + Ü (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-2-102: P (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-3-102: 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)

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.

Assessment in module component 08-AC1-1-102: Principles of Inorganic Chemistry Principles of Inorganic Chemistry Principles of Inorganic Chemistry

- 10 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 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

- Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).

Assessment in module component 08-AC1-LA-2-102: Inorganic and Analytical Chemistry (lab) (teaching degree)

- 7 ECTS, Method of grading: (not) successfully completed
- pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)
- Assessment offered: once a year, summer semester
- Language of assessment: German or English

Assessment in module component 08-AC1-LA-3-102: Inorganic Chemistry 1 (accompanying lecture) (teaching degree)

- 3 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 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)

§ 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie"
§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"

Module appears in

First state examination for the teaching degree Grundschule Chemistry (2009)
First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2009)
First state examination for the teaching degree Hauptschule Chemistry (2009)
First state examination for the teaching degree Hauptschule Didactics in Chemistry (Secondary School) (2009)
First state examination for the teaching degree Realschule Chemistry (2009)
First state examination for the teaching degree Gymnasium Chemistry (2009)
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Secondary School) (2009)
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2013)
First state examination for the teaching degree Mittelschule Chemistry (2013)
First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2013)