

Modulbezeichnung: Inorganic chemistry (CM1-IC) **15 ECTS**
(Inorganic chemistry)

Modulverantwortliche/r: Karsten Meyer

Lehrende: Karsten Meyer, Julien Bachmann, Ivana Ivanovic-Burmazovic, Sjoerd Harder, Nicolai Burzlaff, Romano Dorta

Startsemester: SS 2019

Dauer: 2 Semester

Turnus: halbjährlich (WS+SS)

Präsenzzeit: 225 Std.

Eigenstudium: 225 Std.

Sprache: Englisch

Lehrveranstaltungen:

A. Advanced Inorganic Chemistry I (WS)

Advanced Inorganic Chemistry (WS 2019/2020, Vorlesung, 2 SWS, Ivana Ivanovic-Burmazovic et al.)

Advanced Inorganic Chemistry - Seminar (WS 2019/2020, Seminar, 1 SWS, Ivana Ivanovic-Burmazovic et al.)

B. Advanced Inorganic Chemistry II (SS)

Special Topics in Inorganic Chemistry (SS 2019, Vorlesung, 2 SWS, Marat Khusniyarov et al.)

Special Topics in Inorganic Chemistry (Seminar) (SS 2019, Seminar, 1 SWS, Marat Khusniyarov et al.)

C. Advanced Chemical Chemistry - Lab Course and Seminar

Attendance of lab course is compulsory!

Advanced Inorganic Chemistry - Practical / Fortgeschrittenenpraktikum Anorganische Chemie (WS 2019/2020, Praktikum, 8 SWS, Karsten Meyer et al.)

Advanced Inorganic Chemistry - Seminar Talk (Vortragsseminar zum Fortgeschrittenenpraktikum Anorganische Chemie) (WS 2019/2020, Seminar, 1 SWS, Andreas Scheurer)

Advanced Inorganic Chemistry - Practical (SS 2019, Praktikum, 8 SWS, Die Dozenten der Anorg. Chemie)

Advanced Inorganic Chemistry - Seminar Talk (Vortragsseminar zum Fortgeschrittenenpraktikum Anorganische Chemie) (SS 2019, Seminar, 1 SWS, Andreas Scheurer)

Inhalt:

- Introduction to current research topics of Inorganic Chemistry
- establishing fundamental knowledge required for appreciation of more specialized topics in Inorganic Chemistry; the expected standard is based on a research oriented masters program.
- extension of knowledge by offering the students a choice of lab courses and lectures in specialized fields of Inorganic Chemistry taught by an expert lecturer of the Department
- intensifying practical experience in selected topics of analytical and preparative laboratory work on an advanced skill level

Lernziele und Kompetenzen:

The students

- acquire knowledge and expertise required for danger evaluation and practical handling of novel inorganic compounds
- prepare and characterize compounds not previously introduced in mandatory practical courses
- apply and evaluate the guiding principles of inorganic chemistry to practical-preparative problems
- manage and apply the fundamental safety regulations important to handling hazardous compounds and instruct other coworkers in relevant safety topics

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] **Chemie (Master of Science): 1-2. Semester**

(Po-Vers. 2009 | NatFak | Chemie (Master of Science) | Kernmodul | Anorganische Chemie)

Studien-/Prüfungsleistungen:

Mündliche Prüfung Anorganische Chemie (Prüfungsnummer: 65001)

(englische Bezeichnung: Oral Examination on Inorganic Chemistry)

Prüfungsleistung, mündliche Prüfung, Dauer (in Minuten): 45

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Oral examination 45 min (O45), 2 examiners

Prüfungssprache: Englisch

Erstablesung: WS 2019/2020, 1. Wdh.: SS 2020

1. Prüfer: Karsten Meyer

1. Prüfer: Romano Dorta

1. Prüfer: Nicolai Burzlaff

1. Prüfer: Ivana Ivanovic-Burmazovic

Organisatorisches:

Module frequency: **A.** winter term, LEC (SL); **B.** summer term, LEC (SL); **C.** winter and summer term, LAB (SL) + Ex (SL)

Calculation of the grade for the module: Result of the oral examination (100%)

Bemerkungen:

Module compatibility: M.Sc. Chemistry (Mandatory Module)/M.Sc. Molecular Science (Elective module)