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

Modulverantwortliche/r: Karsten Meyer

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

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Startsemester: WS 2018/2019	Dauer: 2 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 225 Std.	Eigenstudium: 225 Std.	Sprache: Englisch

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**Lehrveranstaltungen:**

**A. Advanced Inorganic Chemistry I (WS)**

Advanced Inorganic Chemistry (WS 2018/2019, Vorlesung, 2 SWS, Ivana Ivanovic-Burmazovic et al.)  
 Advanced Inorganic Chemistry - Seminar (WS 2018/2019, 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 Inorganic Chemistry - Lab Course and Seminar**

Attendance in lab course is compulsory!

Advanced Inorganic Chemistry - Practical / Fortgeschrittenenpraktikum Anorganische Chemie (WS 2018/2019, Praktikum, 8 SWS, Karsten Meyer et al.)

Advanced Inorganic Chemistry - Seminar Talk (Vortragsseminar zum Fortgeschrittenenpraktikum Anorganische Chemie ) (WS 2018/2019, 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)

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**Empfohlene Voraussetzungen:**

- Erfolgreicher Abschluss des Moduls CM1-IC

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**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

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**Organisatorisches:**

Module frequency: **A.** winter term, **B.** summer term, **C.** winter and summer term

**Bemerkungen:**

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