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| <b>Modulbezeichnung:</b> Inorganic chemistry (CM1-IC)<br>(Inorganic chemistry) |                                                                                                          | <b>15 ECTS</b>               |
| Modulverantwortliche/r:                                                        | Karsten Meyer                                                                                            |                              |
| Lehrende:                                                                      | Julien Bachmann, Ivana Ivanovic-Burmazovic, Karsten Meyer, Sjoerd Harder, Romano Dorta, Nicolai Burzlaff |                              |
| Startsemester: WS 2016/2017                                                    | 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 2016/2017, Vorlesung, 2 SWS, Ivana Ivanovic-Burmazovic et al.)  
Advanced Inorganic Chemistry - Seminar (WS 2016/2017, Seminar, 1 SWS, Ivana Ivanovic-Burmazovic et al.)

##### **B. Advanced Inorganic Chemistry II (SS)**

Special Topics in Inorganic Chemistry (SS 2017, Vorlesung, 2 SWS, Nicolai Burzlaff et al.)  
Special Topics in Inorganic Chemistry (Seminar) (SS 2017, Seminar, 1 SWS, Nicolai Burzlaff et al.)

##### **C. Advanced Inorganic Chemistry - Lab Course and Seminar**

Attendance in lab course is compulsory!

Advanced Inorganic Chemistry - Practical / Fortgeschrittenenpraktikum Anorganische Chemie (WS 2016/2017, Praktikum, 8 SWS, Karsten Meyer et al.)

Advanced Inorganic Chemistry - Seminar Talk (Vortragsseminar zum Fortgeschrittenenpraktikum Anorganische Chemie ) (WS 2016/2017, Seminar, 1 SWS, Andreas Scheurer)

Advanced Inorganic Chemistry - Practical (SS 2017, Praktikum, 8 SWS, Die Dozenten der Anorg. Chemie)

Advanced Inorganic Chemistry - Seminar Talk (SS 2017, Seminar, 1 SWS, Die Dozenten der Anorg. Chemie)

#### 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) | Masterprüfung | 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 (O45), 2 examiners

A.: LEC (SL)

B.: LEC (SL)

C.: LAB (SL) + Ex (SL)

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

Prüfungssprache: Englisch

Erstablingung: SS 2017, 1. Wdh.: WS 2017/2018

1. Prüfer: Karsten Meyer

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**Organisatorisches:**

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

**Bemerkungen:**

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