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<b>Modulbezeichnung:</b> Organic chemistry (CM2-OC) (Organic chemistry)	<b>15 ECTS</b>
Modulverantwortliche/r: Andreas Hirsch	
Lehrende: Walter Bauer, Svetlana Tsogoeva, Andreas Hirsch	

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

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**Lehrveranstaltungen:**
**A. Advanced Organic Chemistry I (2L, 1S), WS**

Advanced Organic Chemistry I - Synthesis and Catalysis/Fortgeschrittene Organische Chemie I - Synthese und Katalyse (WS 2019/2020, Vorlesung, 2 SWS, Svetlana Tsogoeva et al.)

**B. Advanced Organic Chemistry II (2L, 1S), SS**

Functional pi-systems (SS 2019, Vorlesung, 2 SWS, Andreas Hirsch et al.)

Current issues in Organic Chemistry I/II (Advanced Organic Chemistry II) (SS 2019, Seminar, 2 SWS, Andreas Hirsch et al.)

**C. Advanced Organic Chemistry Lab Course (7Lab)**

Attendance of lab course is compulsory!

Advanced Organic Chemistry - Practical (SS 2019, Praktikum, 7 SWS, Andreas Hirsch)

Advanced Organic Chemistry - Practical / Fortgeschrittenenpraktikum Organische Synthesechemie (WS 2019/2020, Praktikum, 7 SWS, Svetlana Tsogoeva et al.)

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**Empfohlene Voraussetzungen:**

- Erfolgreicher Abschluss des Moduls CK2
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**Inhalt:**

- Introduction to current research topics of Organic Chemistry
- establishing fundamental knowledge required for appreciation of more specialized topics in Organic Chemistry; the expected standard is based on a research oriented Masters program
- intensifying practical experience in selected topics of preparative Organic Chemistry on an advanced skill level

**Lernziele und Kompetenzen:**

Students

- acquire knowledge and expertise required for theoretical evaluation and practical handling of novel organic compounds
  - prepare and characterize compounds not previously introduced in mandatory practical courses
  - apply and evaluate the guiding principles of Organic Chemistry to practical-preparative problems
  - manage and apply the fundamental safety regulations important to handling hazardous compounds and instruct other co-workers 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. Chemie / M.Sc. Molecular Science (Elective module)