Modulbezeichnung:	**Organic chemistry (CM2-OC)** (Organic chemistry)	**15 ECTS**
Modulverantwortliche/r:	Andreas Hirsch	
Lehrende:	Svetlana Tsogoeva, Andreas Hirsch	

Startsemester: WS 2019/2020	Dauer: 2 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 225 Std.	Eigenstudium: 225 Std.	Sprache: Englisch

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 2020, Vorlesung, 2 SWS, Andreas Hirsch et al.)

Current issues in Organic Chemistry I/II (Advanced Organic Chemistry II) (SS 2020, Seminar, 2 SWS, Andreas Hirsch et al.)

C. Advanced Organic Chemistry Lab Course (7Lab)

Attendance of lab course is compulsory!

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

Advanced Organic Chemistry - Practical (SS 2020, Praktikum, 7 SWS, Andreas Hirsch)

Empfohlene Voraussetzungen:

- Erfolgreicher Abschluss des Moduls CK2

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 theoreticalevaluation 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

Organisatorisches:

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

Grading procedure: Result of the oral examination (100%)

Bemerkungen:

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