## Module title
Organic Chemistry 3 & 4

| Abbreviation | 08-OC3+4-152-m01 |

## Module coordinator
holder of the Professorship of Organic Chemistry

## Module offered by
Institute of Organic Chemistry

## ECTS
13

## Method of grading
numerical grade

## Only after succ. compl. of module(s)
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## Duration
2 semester

## Module level
undergraduate

## Other prerequisites
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## Contents
The module focuses on polar rearrangements, olefination reactions, pericyclic reactions, carbenes, nitriles and radicals. It imparts basic knowledge of stereoselective synthesis, asymmetric catalysis, organometallic chemistry and retrosynthesis. Further focuses are heterocycles, dyes, natural products, biopolymers and protecting groups.

## Intended learning outcomes
The student is able to formulate olefination reactions. He/She can develop stereoselective syntheses and asymmetric catalyses. He/She can outline organometallic reactions and analyse a molecule by retrosynthesis. He/She can name important heterocyclics and outline their reactions and synthesis. He/She is able to characterize and categorize dyes and to describe the structure and the selective synthesis of proteins. Furthermore, he/she can outline the structure of DNA, carbohydrates, fats, terpenes and steroids.

## Courses
(type, number of weekly contact hours, language — if other than German)

| V (2) | Ü (2) | V (2) | Ü (2) | S (1) |

## Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

- a) written examination (approx. 90 to 180 minutes)
- b) oral examination of one candidate each (20 to 30 minutes)
- c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)
- d) log (approx. 20 pages)
- e) presentation (approx. 30 minutes)

Language of assessment: German and/or English

## Allocation of places
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## Additional information
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## Referred to in LPO I (examination regulations for teaching-degree programmes)
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## Module appears in
Bachelor' degree (1 major) Chemistry (2015)
Bachelor' degree (1 major) Chemistry (2017)