Course: Introduction to Organic Chemistry — credits: 5

Course code	CHVP23ORGCHEMIE
Name	Introduction to Organic Chemistry
Study year	2025-2026
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	-

Modes of delivery	Assignment Practical / Training Project-based learning Tutorial
Assessments	Organische Chemie Theory - Written, organised by STAD examinations Project Synthese - Other assessment

Learning outcomes

- You assign the systematic name to simple alkanes, alkenes, carboxylic acids, alcohols, esters, ethers and amines and draw the correct structural formula from a given name.
- You recognize and name stereoisomers in structural formulas (E/Z, R/S) and draw correct stereochemical structural formulas.
- You identify a nucleophile and an electrophile and explain the course of an electrophile addition reaction and draw its mechanism.
- You apply the acquired theoretical knowledge and translate it into an approach for a simple organic synthesis with correct use of the provided reprocessing techniques.
- You perform a simple organic synthesis in a safe and responsible way, work up the reaction mixture and apply relevant analytical techniques. You report on this according to the applicable guidelines and give an attractive and structured presentation on this for fellow students and teachers

DAS competencies

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	
Management	
Advise	
Instruction	
Leadership	
Self-Management	I

Content

In this module you will work with organic chemistry. You will learn the nomenclature of organic molecules, type(s) of reactions and are introduced to reaction mechanisms. You will apply this acquired theoretical knowledge to several organic chemical reactions in the lab where you will reuse self-synthesized products from quarter 1 in a group project.
Practical work is assessed by logbooks, results forms, practical competencies and a presentation. Theory is taught through instructional lectures and tested through a written exam.

Included in programme(s)

Chemistry

School(s)

Institute for Life Science & Technology

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