COURSE DETAIL

ORGANIC CHEMISTRY
Country Netherlands
Host Institution Maastricht University – University College Maastricht
Program(s) University College Maastricht
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Chemistry
UCEAP Course Number 100
UCEAP Course Suffix
UCEAP Official Title ORGANIC CHEMISTRY
UCEAP Transcript Title ORGANIC CHEMISTRY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

Full course description

This course focuses on the basis of organic chemistry. In the first part of the course, important fundamental topics, such as atomic theory, bonding theory, hybridization, molecular orbital theory and resonance will be discussed. A special topic will be stereochemistry, which is an essential topic in organic chemistry and the life sciences, since stereochemistry often determines the activity of biological compounds or medicines. Subsequently, the course continues with an introduction into reactivity of organic molecules. Focus, will be on a selection of fundamental organic reactions, which form the basis for a wide array of other organic reactions. To this end, a logical review will be provided of the reactivity of the most important functional groups, as applied in organic synthesis.

Course objectives

- To give the ability to recognize and name common organic compounds.
- To know the basic physical and chemical properties of common organic compounds.
- To understand stereochemistry and its impact on the properties and applications of organic molecules.
- To enable you to understand the most important organic reactions and be able to apply these reactions to obtain well defined organic compounds.

Prerequisites

SCI1004 Introduction to Chemistry. Students with substantial high school experience in Chemistry (For an indication of the relevant topics, see SCI-C, p. vi-viii) can contact the coordinator to request a waiver.

Language(s) of Instruction
English

Host Institution Course Number
SCI 2017

Host Institution Course Title
ORGANIC CHEMISTRY

Host Institution Course Details
https://www.maastrichtuniversity.nl/education/bachelor/university-college-maast...

Host Institution Campus
University College Maastricht

Host Institution Faculty

Host Institution Degree

Host Institution Department
Life Sciences

Course Last Reviewed
2022-2023

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