

## 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 Campus**

University College Maastricht

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Life Sciences

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