

# COURSE DETAIL

## BIOCHEMISTRY

**Country**

Netherlands

**Host Institution**

Maastricht University - University College Maastricht

**Program(s)**

Biological and Life Sciences, Maastricht, University College Maastricht

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences Biochemistry

**UCEAP Course Number**

120

**UCEAP Course Suffix****UCEAP Official Title**

BIOCHEMISTRY

**UCEAP Transcript Title**

BIOCHEMISTRY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course presents the essentials of Biochemistry. It covers the structures, functions, and interactions of biomacromolecules, including proteins, lipids, carbohydrates, DNA, and RNA, which perform many of the activities associated with life. The course provides insight in the specificity and action of enzymes, the bio catalysts of the cell. Further, it explains metabolic pathways that result in the generation of ATP, the major energy currency of the cell. Finally recent biochemical understandings on genome editing are presented that revolutionize treatment of diseases at the level of correcting mutated genes (gene therapy). Prerequisites for this course are an introduction to biology or chemistry.

## Language(s) of Instruction

English

## Host Institution Course Number

SCI2035

## Host Institution Course Title

BIOCHEMISTRY

## Host Institution Campus

Maastricht University

## Host Institution Faculty

University College Maastricht

## Host Institution Degree

## Host Institution Department

Sciences

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