

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 Course Details

<https://curriculum.maastrichtuniversity.nl/education/contract/public-health-med...>

Host Institution Campus

Maastricht University

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department

Sciences

Course Last Reviewed

2024-2025

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