Course: Biochemistry 1 — credits: 5

Course code	CHVP23BIOCHEMIE
Name	Biochemistry 1
Study year	2026-2027
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	L. Bosgraaf

Modes of delivery	Assignment Lecture Practical / Training Project-based learning Teaching method 1 Teaching method 2
Assessments	Biochemie 1 theorie - Computer, organised by STAD examinations Project Biobased Chemistry - Other assessment

Learning outcomes

This module has the following learning outcomes:

You name various types of lipids and their functions.

You draw and describe the structure of proteins, lipids, DNA and RNA.

You classify enzymes and describe the factors that influence enzyme activity.

You describe the following processes: translation, transcription, PCR, DNA mutations.

You acquire theoretical understanding and practical experience of the molecular processes involved in composting biodegradable substances.

You delve into an experiment and/or project in a group and give advice for sustainability

You give an attractive and structured poster presentation for fellow students and lecturers (PS = Personal Skills)

DAS competencies

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

Content

This module is an introduction to biochemistry, covering the structure and function of proteins, enzymes, lipids, DNA and RNA. Theory is covered in fourteen instructional lectures. There is also a practical, where protein folding and denaturation are investigated. Furthermore, the module includes the Biobased Chemistry project, where a practical assignment related to sustainability in the lab is worked on in small groups. In addition, a poster is made on a literature topic. Mentoring activities revolve around personal development (PD) and professional identity (PI).

Included in programme(s)

Chemistry

School(s)

Engineering, Life Sciences & ICT

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