Module title: Basic Biochemistry

Module coordinator: Dean of Studies Biologie (Biology)

Abbreviation: 07-3A3BC-152-m01

Module offered by: Faculty of Biology

ECTS: 4

Method of grading: numerical grade

Duration: 1 semester

Module level: undergraduate

Other prerequisites: Admission prerequisite to assessment: exercises. Regular attendance of exercises (minimum 80%) and successful completion of the respective exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.

Contents:
With the module component Makromoleküle (Macromolecules) as a starting point, the lecture will provide students with deeper insights into the molecular biology and biochemistry of prokaryotes and eukaryotes. Students will become familiar with fundamental principles of molecular biology (replication, transcription, splicing and translation) and the biochemistry of carbohydrates, lipids, proteins and nucleic acids. Experiments will be performed on selected topics that were discussed in the lecture. The exercise will cover practical aspects of lab work (PCR, DNA and protein gel electrophoresis, blot, enzyme kinetics and detection, protein isolation).

Intended learning outcomes:
Students are familiar with the fundamental principles of biochemistry.

Courses:
V (1) + Ü (2)

Method of assessment:
written examination (approx. 60 minutes)
creditable for bonus

Allocation of places:
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Additional information:
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Referred to in LPO I:
(examination regulations for teaching-degree programmes)
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Module appears in:
Bachelor' degree (1 major) Biology (2015)
Bachelor' degree (1 major) Mathematics (2015)
Bachelor' degree (1 major) Computational Mathematics (2015)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)
Bachelor' degree (1 major) Biology (2017)