## Module title
Basic Biochemistry

## Abbreviation
07-3A3BC-152-m01

### Module coordinator
Dean of Studies Biologie (Biology)

### Module offered by
Faculty of Biology

### ECTS
4

### Method of grading
Numerical grade

### Only after succ. compl. of module(s)

### Module level
Undergraduate

### Duration
1 semester

### 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)

### Allocation of places

### Additional information

### Referred to in LPO I
(examination regulations for teaching-degree programmes)

### 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)
- Bachelor’ degree (1 major) Biology (2021)
- Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)
- Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)