

Module title		Abbreviation
Biology in Technics and Medicine		07-GY-PBBT-092-m01
Module coordinator		Module offered by
Dean of Studies Biologie (Biology)		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
3	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Using examples from the fields of biotechnology and pharmaceutical biology, this module will provide teaching degree students with an overview of the applications of biology in technology and medicine. Topics from the area of biotechnology that will be covered include biosensors and environmental biotechnology, microbiotechnology and nanobiotechnology, biomaterials, cryobiotechnology, bioprocess engineering and microbial biotechnology. In the module component on pharmaceutical biology, students will acquire an overview of the study of biogenic drugs. This module component will include an introduction to pharmacokinetics, the discipline that describes the fate of a drug or xenobiotic in an organism. In addition to an insight into pharmacology and the effects of xenobiotics/pollutants, students will thus acquire an overview of industrial processes.		
Intended learning outcomes		
Students have become familiar with the fundamental principles of biotechnology and pharmaceutical biology. They recognise the relevance findings in biology have to technological progress and know how drugs act in the body.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + V (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
2 written examinations (30 to 60 minutes each)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
First state examination for the teaching degree Gymnasium Biology (2009)		