



Module	<i>Biophysics: Cellular Biophysics</i>
Code	73809
Instruction language	English
ECTS credits	6
Credit hours	6
Duration	1 semester
Cycle	Summer semester
Coordinator	Prof. Jens Michaelis
Lecturer	Prof. Jens Michaelis; Prof. Kay Gottschalk
Allocation to study programmes	Physics M.Sc., elective module, 1 st or 2 nd semester Wirtschaftsphysik M.Sc., elective module, 1 st – 3 rd semester
Formal prerequisites	None
Recommended prerequisites	Module <i>Biophysics: Fundamentals</i>
Learning objectives	Students who successfully passed this module <ul style="list-style-type: none">• understand complex experimental setups in modern biophysics• can apply fundamental biophysical methods to current molecular biological and cell biological issues• are able to describe biological phenomena using physical models of varying complexity
Syllabus	•
Literature	•
Teaching and learning methods	Cellular Biophysics (Lecture, 2 hours per week) Biophysics Lab II (4 hours per week)
Workload	30 hours lecture (attendance time) 60 hours laboratory course (attendance time) 90 hours self-study and exam preparation Total: 180 hours
Assessment	Written or oral examination. A prerequisite for the participation in the examination is an ungraded course achievement. Form and scope of the examination and of the course achievement are determined and notified by the lecturer at the beginning of the course.
Examination	13812 Biophysics: Cellular Biophysics (precourse) 13811 Biophysics: Cellular Biophysics
Grading procedure	The module grade is the examination grade.
Basis for	Research in the field of Biophysics