

Module: Bioinorganic Chemistry			
University/department/institute: Freie Universität Berlin/Department of Biology, Chemistry and Pharmacy/Institute of Chemistry and Biochemistry			
Responsible for the module: module lecturers			
Admission requirements: none			
Qualification aims: The students are familiar with the role of metals and metal proteins in life processes. They have also deepened their knowledge of modern aspects of bioinorganic chemistry.			
Content: Development of the contemporary environment; biological function of main group elements; transition metals in biological systems; ion pumps; ion channels; ligands in biological systems; iron as an important element in biology; zinc proteins; metals at the core of photosynthesis and nitrogen fixation; molybdenum and cobalt enzymes; biomineralization and biomaterials; modern aspects of bioinorganic chemistry			
Teaching and learning units	Attendance (Semester hours per week = SH)	Forms of active participation	Study time (hours)
Lecture I	2	-	Attendance L I 30 Preparation and follow-up L I 45 Attendance L II 15 Preparation and follow-up L II 30
Lecture II	1		Examination preparation, 30 examination
Language of instruction		German or English	
Compulsory regular attendance		Attendance recommended	
Study time, total hours		150 hours	5 CP
Duration of module		One semester	
Module offered		Every other semester	
Application		Master's program in Chemistry	