



Title of module	Responsible	SWS	type of cours	Title of lectures (teacher)	Examination	ECTS
1st semester	•				-	
Biomedical modules						
Chemistry with Biomolecules	Stewart	2	lecture	Combinatorial principles (Gross/Zhang)	written exam (120 min) 75%	6
		2	lecture	Surface Chemistry (Werner)	1	(over 2 sem)
Genomes and Evolution	Stewart	3	lecture	Genomes and Evolution (Stewart)	written exam (120 min) 75%	
		5	lab course		lab protocol 25%	6
Introduction to Proteomics	Stewart/	3	lecture	Introduction to Proteomics (Alberti)	oral (20 min) or written exam	
	Alberti	5	lab course		lab protocol 25%	6
Technological modules						
Structural and Computational Biolog	Pisabarro	2	lecture	Structural and Computational Biology	written exam (90 min) 75%	
	1	2	seminar	(Pisabarro)	presentation 25%	4
Biophysics	Guck	2	lecture	Biophysical Methods (Schlierf)	presentation 40%	10
	Schlierf	2	seminar			-
		1	lab course		lab protocol 20%	
		2	lecture	Principles of Biophysics (Schlierf)	written exam (90 min) 40%	
		2	exercise			
		33				
2nd semester						
Biomedical modules						
Genome and Stem Cell Engineering	Anastassiadis	2	lecture	Genome Engineering (Stewart)	presentation 40%	7
	1	3	lab course		lab protocol 20%	(over 2 sem)
Protein Networks and Protein	Stewart/Alber	2	lecture	Dynamics of Protein Networks (Alberti)	presentation 40%	7
Engineering		-	1001010			,
Engineering			1			
Observations with Disconstant law		3	lab course	Character the Disconduct Law (Cord)	lab protocol 20%	(over 2 sem)
Chemistry with Biomolecules	Stewart	2	lab course	Chemistry with Biomolecules (Groß)	lab protocol 25%	Ŭ
Technological modules						(over 2 sem)
Bionanotechnology	Cuniberti	2	lecture	Introduction to Bionanotechnology	oral exam (20 min)	3
	D:	1	lab course	(Cuniberti/Thiele)		10
Cellular Machines	Diez	2	lecture	Cellular Machines: From Cellular		10
		0		Function to Technological Applications	presentation (2nd/3rd term)	
		2	seminar	(Diez/Schlierf)	30%	(over 2 sem)
		2	lab course		lab protocol 20%	
Bioinformatics	Schroeder	2	lecture	Applied Bioinformatics (Schroeder)	written exam (90 min)	8
		2	tutorial			
		2	lecture	Bio-image analysis, bio-statistics, program		
Optional modules (chases 1)		2	tutorial	and machine learning for computational	u(Haase)	
Optional modules (choose 1)						~
Application in Technology	Braun,HG	2	lecture lab course	Microsystems Technology (Braun)	oral exam (20 min) 40%	/ (over 2 sem)
Application in Biomedicine	Corbeil	2	lad course	Materials in Biomedicine (Hintze)	written exam (90 min) 30%	
	COIDEII	2	lab course		lab protocol 10%	(over 2 sem)
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3rd semester						
Lab Project		18	lab course		protocol/mini manuscript (2/3) presentation (1/3)	16
Biomedical modules						
Genome and Stem Cell Engineering	Stewart	2	lecture	Stem Cell Engineering (Anastassiadis)	presentation 40%	7 (over 2 sem)
Protein Networks and Protein Engir	Stewart Alberti	2	lecture	Protein Engineering (Alberti)	presentation 40%	7 (over 2 sem
Technological modules						(0.0 0.0.
Cellular Machines	Diez	2	lecture seminar	Cellular Machines: Fundamentals and Applications of Biomolecular Mechanosystems (Diez)	oral exam (20 min) 50% presentation (2nd/3rd term)	10 (over 2 sem)
Optional modules (choose 1)	5 110	-				
Application in Technology	Braun,HG	2	<mark>lecture</mark> seminar	Applied Bionanotechnology (Cuniberti/ Thiele) Public and economic aspects	oral exam (20 min) 40%	7 (over 2 sem)
		1	seminar	(Schmieder-Galfe/Sterneckert)	essay 20%	
Application in Biomedicine	Corbeil	2	lecture	Biomedical Tissue Engineering (Corbeil) Public and economic aspects	oral exam (20 min) 40%	7 (over 2 sem)
		1	seminar	(Schmieder-Galfe/Sterneckert)	essay 20%	(010) 2 0011
1th compostor		29-30				
4th semester Masters Thesis						30
		1	1	Total ECTS:		120