

Materials Science and Engineering: course programm (90 CPs) and thesis, coll. (30 CPs)

Stand 19.01.2022 - v18

	CP			V	Ü	P	S	Winter (WS)/ Summer (Sose)	Lecturer	
Compulsory Modules	8	ITB.2.0111.0.P	Solid State Physics and Semiconductors	4	1	0	2	WS	Mertins	
	8	ITB.2.0034.0.P	Dielectrics and Ceramics	3	1	3	0	Sose	Gregor	
	24 CP	8	ITB.2.0067.0.P	Macromolecular Chemistry and Polymer Application	3	1	3	0	WS	Schäferling
Project Work	4	ITB.2.0098.1.T	Literature Research	Literature Research	0	0	0	1	WS/Sose	
Compulsory Modules	4	ITB.2.0098.2.T	Project Work	Project Work	0	0	0	1	WS/Sose	
	12 CP	4	ITB.2.0098.3.T	Project Work	Project Work	0	0	0	1	WS/Sose
Electives I Common Subjects	6	CIW.2.0058.0.P	Advanced Organic Materials	3	2	0	0	Sose	Schäferling	
	6	ITB.2.0007.0.P	Advanced Physical Chemistry	3	0	3	1 (2)	Sose	Bredol	
	6	CIW.2.0063.0.P	Aerosol- and Nanotechnology	2	1	3	0	Sose	Salameh	
	6	ITB.2.0010.0.P	Analytics of Plastics and Polymers	3	1	1	0	WS	Kreyschmidt	
	6	ITB.2.0028.0.P	Chemical Nanotechnology	3	0	0	2	WS	Bredol	
	6	CIW.2.0053.0.P	Chemical Sensors	3	1	1	0	Sose	Schäferling	
	6	CIW.2.0065.0.P	Engineering now	0	2	0	2	WS	Salameh	
	6	ITB.2.0045.0.P	Incoherent Light Sources	3	1	0	1	Sose	Jüstel	
	6	ITB.2.0066.0.P	Life-Cycle Assessment	3	1	0	2	WS	Schupp	
	3	ITB.2.0084.0.P	Modern Crystallographic Methods	2	1	0	0	Sose	Jüstel	
	6	ITB.2.0090.0.P	Optical and electrical characterization of Materials	3	1	1	0	WS	Bredol	
	6	CIW.2.0062.0.P	Particle Technology	2	1	3	0	WS	Salameh	
	6	ITB.2.0096.0.P	Project Management	3	1	1	0	WS	Guderian	
	6	ITB.2.0120.0.P	Technology of Coatings	3	2	0	0	WS	Schäferling	
	6	PHY.2.0018.0.P	Biomedical Materials	3	1	1	0	Sose	Gregor	
	5	PHY.2.0108.0.P	Entwicklung von MOEMS mit der FEM	2	0	2	0	Sose	Chlebek	
	5	PHY.2.0031.0.P	Halbleitertechnologie zur Entwicklung von MOEMS	2	1	0	0	WS	Chlebek	
	6	ITB.2.0164.0.P	Lasermaterialbearbeitung	2	0	2	0	WS	Gurevich	
	6	PHY.2.0059.0.V.1	Laserphysik	2	1	2	0	WS	Gurevich	
	6	ITB.2.0082.0.P	Microscopy/Surface Science	3	0	2	0	Sose	Mertins	
	6	PHY.2.0121.0.M	Quantum Sensors	1	1	0	2	Sose	Gregor/ Glösekötter	
	6	ITB.2.0112.0.P	Quantum Statistical Physics	3	2	0	0	Sose	Morawetz	
	6	MB.2.0063.0.P	Innovative Materials	3	1	1	0	WS	Apmann	
	6	ETI.2.0022.0.P	Fortgeschrittene Energiespeichertechnologie	2	0	0	2	Sose	Job	
	6	ITB.2.0024.0.P	Business Simulation	0	0	4	0	Sose	Elfering/ Schwanitz	
	Electives I special subjectives only for Chemistry students Min. 42 CP	6	ITB.2.0006.0.P	Advanced Inorganic Chemistry	2	1	2	0	WS	Kynast
		6	ITB.2.0029.0.P	Chemical Technology of Materials	3	1	1	0	WS	Jüstel, Kynast
		6	ITB.2.0081.0.P	Membrane Separations	3	1	2	0	Sose	Jordan
	Electives II Min. 3 CP and max. 12 CP		ITB.2.0168.0.P	Arbitrary Module					WS/Sose	
		3	PHY.2.0107.0.P	Basics in Physics	2	0	0	0	WS	Mertins
3		CIW.2.0060.0.P	Chemistry for Engineers	2	1	0	0	Sose	Möller	
3		ITB.2.0042.0.P	German as a foreign language or	2	1	0	0	WS/Sose		
3		ITB.2.0051.0.P	Intercultural Communication and Competence	1	1	0	0	Sose	Auschner	
6	ITB.2.0093.0.P	Photovoltaische Systeme	2	1	1	0	Sose	Mertens		

Legend: The colour coding only refers to Department which offers the module	blue Physics	yellow Chemistry	Grey Electrical Engineering & Computer Science	green Mechanical Engineering	red Institute of Business Administration & Engineering
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In the elective module catalogue II, modules of at least 3 credit points must be completed. The modules of the elective module catalogue II which have to be completed are determined by the examination board on the basis of previous knowledge, with the following condition: if proof of sufficient knowledge of German is not given, the module "German as a foreign language" has to be completed, if sufficient knowledge of German exists, the module "Intercultural Communication and Competence" has to be completed. Arbitrary Module: Any module supplied by one of the master programs at the University of Applied Sciences Münster can be selected if it is related to the field of materials science. This is decided by the examination board. The student must apply for admission of the respective module at the examination board of the master Material Sciences and Engineering.