

	CP			V	Ü	P	S	Winter (WS)/ Summer (Sose)	Lecturer	
<b>Compulsory Modules</b>	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
<b>Project Work</b>	4	ITB.2.0098/99.1.T	Literature Research	Literature Research	0	0	0	1	WS/Sose	
<b>Compulsory Modules</b>	4	ITB.2.0098/99.2.T	Project Work	Project Work	0	0	0	1	WS/Sose	
	12 CP	4	ITB.2.0098/99.3.T	Project Work	Project Work	0	0	0	1	WS/Sose
<b>Electives I</b> <b>Common Subjects</b>	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	Kreyenschmidt	
	6	CIW.2.0065.0.P	Applied Process Development (Großer Wahlkatalog)	0	2	0	2	WS	Salameh	
	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.2.0070.0	Electrochemistry - Basics and analytical applications	2	1	2	0	Sose	Schlitter	
	6 (3)	CIW.2.0067.0.P	Hazardous Substances: Regulations and Risks (Gefahrstoffkunde)	2 (2)	2 (2)	2 (0)	0	WS	Schupp	
	6	ITB.2.0045.0.P	Incoherent Light Sources (Großer Wahlbereich)	3	1	0	1	Sose	Jüstel	
	6	ITB.2.0066.0.P	Life-Cycle Assessment	3	1	0	2	Sose	Schupp	
	3	ITB.2.0084.0.P	Modern Crystallographic Methods	2	1	0	0	Sose	Breternitz	
	6	ITB.2.0090.0.P	Optical and electrical characterization of Materials	3	1	1	0	WS	Jüstel/Neitzel-Grieshammer	
	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.2.0127.0.P	Battery Production	2	2	0	0	WS	Mertins	
	6	ITB.2.0018.0.P	Biomedical Materials	3	1	1	0	Sose	Gregor	
	6	PHY.2.0138.0	Image Processing	0	0	2	2	WS	Wermers	
	6	PHY.2.0139.0	Integrated Devices	3	1	1	0	WS	Vogelbacher/ Gregor	
	6	PHY.2.0140.0	Laser Metrology (Großer Wahlbereich)	2	0	2	0	Sose	Gurevich	
	6	ITB.2.0164.0.P	Laser Material Processing	2	0	2	0	WS	Gurevich	
	6	PHY.2.0059.0.V.1	Laser Physics	2	1	2	0	WS	Gurevich	
	6	ITB.2.0082.0.P	Microscopy/Surface Science (Großer Wahlbereich)	3	0	2	0	Sose	Mertins	
	6	PHY.2.0135.0	Modelling and Simulation (Großer Wahlbereich)	2	0	2	0	Sose	Trinschek	
	6	PHY.2.0143.0	Optical Coherence Tomography	3	1	1	0	WS	Vogelbacher	
	6	PHY.2.0144.0	Photonic Crystals and Materials	3	1	1	0	SoSe	Vogelbacher	
	6	PHY.2.0121.0.M	Quantum Sensors	1	1	0	2	SoSe	Gregor/ Glösekötter	
	6	ITB.2.0112.0.P	Quantum Statistical Physics (Großer Wahlbereich)	3	2	0	0	Sose	Morawetz	
	6	MB.2.0063.0.P	Innovative Materials	3	1	1	0	Sose	Gevelmann	
	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	
	<b>Electives I</b> <b>special subjects only for Chemistry students</b> Min. 42 CP	6	ITB.2.0006.0.P	Advanced Inorganic Chemistry	2	1	2	0	WS	Breternitz/ Jüstel
		6	ITB.2.0029.0.P	Chemical Technology of Materials	3	1	1	0	WS	Jüstel / Breternitz
		6	ITB.2.0081.0.P	Membrane Separations	3	1	2	0	Sose	Jordan
<b>Electives II</b>  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/ Jüstel (Breternitz)	
	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		
<b>Electives for all Master programmes Campus Steinfurt - to be recognized for Arbitrary Module (see Electives II)</b>	5	ETI.2.0100.0	Methoden der Robotik (in German only)	2	1	1	0	WS	Bodenburg	
	5	EGU.2.0137.0	Energiesystemmodellierung (in German only)	2	1	0	1	WS/SoSe	Vennemann	
	6	MB.2.0037.0	Landmaschinentechnik 1	3	1	1	0	WS	Große Gehling	
	6	MB.2.0045.0	Nachwachsende Rohstoffe (in German only)	3	1	1	0	WS	Scholz	
	6	MB.2.0013.0	Fahrzeugtechnik (in German only)	3	1	1	0	WS	Große Gehling	
	6	MB.2.0022.0	Höhere FEM (in German only)	2	1	2	0	WS	Finke	
	5	MB.2.0066.0	Digitale Generative Fertigung (in German only)	0	1	2	2		Apmann	
		CIW.2.0069.0	Wasseraufbereitung - Photo- und elektro(chemische) Methoden							
6	CIW.2.0066.0	Science & Fiction (in English and German)	0	0	0	2	SoSe	Salameh / Scholz		
3	CIW.2.0064.0	Science Slam und Wissenschaftskommunikation (in German only)	0	1	0	2	WS	Salameh		
<b>Legend: The colour coding only refers to Department which offers the module</b>	blue	yellow	Grey	green	red	light blue				
	Physics	Chemistry	Electrical Engineering & Computer Science	Mechanical Engineering	Institute of Business Administration & Engineering	Energy, Building Services, Environmental Engineering				

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.