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

	CP		Modules		Winter (WS) Summer (Sose)	Lecturer
Compulsory Modules 24 CP	8	ITB.2.0111.0.P	Solid State Physics and Semiconductors		WS	Mertins
	8	ITB.2.0034.0.P	Dielectrics and Ceramics		Sose	Gregor
	8	ITB.2.0067.0.P	Macromolecular Chemistry and Polymer Application		WS	Schäferling
Project Work Compulsory Modules 12 CP	4	ITB.2.0098/99.1.T	Literature Research	Literature Research	WS/Sose	
	4	ITB.2.0098/99.2.T	Project Work	Project Work	WS/Sose	
	4	ITB.2.0098/99.3.T	Project Work	Project Work	WS/Sose	
Electives I Common Subjects	6	CIW.2.0058.0.P	Advanced Organic Materials		Sose	Schäferling
	6	ITB.2.0007.0.P	Advanced Physical Chemistry		WS	Bredol
	6	CIW.2.0063.0.P	Aerosol- and Nanotechnology		Sose	Salameh
	6	ITB.2.0010.0.P	Analytics of Plastics and Polymers		WS	Kreyenschmidt
	6	CIW.2.0076.0.P	Applied Crystallographic Methods		Sose	Breternitz
	6	CIW.2.0065.0.P	Applied Process Development (Großer Wahlkatalog)		WS	Salameh
	6	CIW.2.0055.0.P	Chemical Sensors		Sose	Schäferling
	6	CIW.2.0070.0	Electrochemistry - Basics and analytical applications		Sose	Schlitter
	6 (3)	CIW.2.0067.0.P	Hazardous Substances: Regulations and Risks (Gefahrstoffkunde)		WS	Schupp
	6	ITB.2.0045.0.P	Incoherent Light Sources (Großer Wahlbereich)		Sose	Jüstel
	6	ITB.2.0066.0.P	Life-Cycle Assessment		Sose	Schupp
	6	ITB.2.0090.0.P	Optical and electrical characterization of Materials		WS	Jüstel/ Neitzel-Grieshammer
	6	CIW.2.0062.0.P	Particle Technology		WS	Salameh
	6	ITB.2.0096.0.P	Project Management		WS	Guderian
	6	ITB.2.0120.0.P	Technology of Coatings		WS	Schäferling
	6	PHY.2.0127.0.P	Battery Production		WS	Mertins
	6	ITB.2.0018.0.P	Biomedical Materials		Sose	Gregor
	6	PHY.2.0138.0.	Image Processing		WS	Wermers
	6	PHY.2.0139.0	Integrated Devices		WS	Vogelbacher/ Gregor
	6	PHY.2.0140.0.	Laser Metrology (Großer Wahlbereich)		Sose	Gurevich
	6	ITB.2.0164.0.P	Laser Material Processing		WS	Gurevich
	6	PHY.2.0059.0.V.1	Laser Physics		WS	Gurevich
	6	ITB.2.0082.0.P	Microscopy/Surface Science (Großer Wahlbereich)		Sose	Mertins
	6	PHY.2.0135.0.	Modelling and Simulation (Großer Wahlbereich)		Sose	Trinschek
	6	PHY.2.0143.0.	Optical Coherence Tomography		WS	Vogelbacher
	6	PHY.2.0144.0.	Photonic Crystals and Materials		SoSe	Vogelbacher
	6	PHY.2.0121.0.M	Quantum Sensors		SoSe	Gregor/ Glösekötter
	6	ITB.2.0112.0.P	Quantum Statistical Physics (Großer Wahlbereich)		Sose	Morawetz
	6	MB.2.0063.0.P	Innovative Materials		Sose	Gevelmann
	~~6~~	~~ETI.2.0022.0.P~~	~~Fortgeschrittene Energiespeichertechnologie~~		~~Sose~~	~~Job~~ – ~~z.Zt. nicht im Angebot~~
	5	ITB.2.0181.0.P	Management Skills		Sose	Böckermann
Electives I - special subjects* Min. 42 CP	6	ITB.2.0006.0.P	Advanced Inorganic Chemistry		WS	Breternitz/ Jüstel
	6	ITB.2.0029.0.P	Chemical Technology of Materials		WS	Jüstel / Breternitz
	6	ITB.2.0081.0.P	Membrane Separations		Sose	Jordan
Electives II Min. 3 CP Max. 12 CP		ITB.2.0168.0.P	Arbitrary Module		WS/Sose	
	3	PHY.2.0107.0.P	Basics in Physics		WS	Mertins
	3	CIW.2.0060.0.P	Chemistry for Engineers		Sose	Möller/ Breternitz
	3	ITB.2.0042.0.P	German as a foreign language or		WS/Sose	Wedi
	3	ITB.2.0051.0.P	Intercultural Communication and Competence		Sose	Alonso Lomba
	~~6~~	~~ITB.2.0093.0.P~~	~~Photovoltaische Systeme~~		~~Sose~~	~~Mertens~~ – ~~z.Zt. nicht im Angebot~~
Electives for all Master programmes at Campus Steinfurt**	5	ETI.2.0100.0	Methoden der Robotik (in German only)		WS	Bodenburg
	5	EGU.2.0137.0.	Energiesystemmodellierung (in German only)		WS/SoSe	Vennemann
	6	MB.2.0037.0.	Landmaschinentechnik 1		WS	Große Gehling
	6	MB.2.0045.0	Nachwachsende Rohstoffe (in German only)		WS	Scholz
	6	MB.2.0013.0	Fahrzeugtechnik (in German only)		WS	Große Gehling
	6	MB.2.0022.0	Höhere FEM (in German only)		WS	Finke
	5	MB.2.0066.0	Digitale Generative Fertigung (in German only)			Apmann
		CIW.2.0069.0	Wasseraufbereitung - Photo- und elektro(chemische) Methoden			
	6	CIW.2.0066.0	Science & Fiction (in English and German)		SoSe	Salameh / Scholz
	3	CIW.2.0064.0	Science Slam und Wissenschaftskommunikation (in German only)		WS	Salameh

Department	blue Physics	yellow Chemistry	Grey Electrical Engineering & Computer Science	green Mechanical Engineering	red Institute of Business Administration & Engineering	light blue Energy.Building Services. Environmental Engineering

* only for students with a Chemistry background

** to be recognized as an Arbitrary module (see Electives II)