

Curriculum Molecular & Materials Engineering 2022-2023

Legend	Compulsory courses	Electives ChE MME	Electives ChE CPE	Electives non ChE
	Deficiency courses	Electives CSE General		

Year 1				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
Core modules	AMM Molecular & Biomolecular CT (5 EC, Huskens)	AMM Organic Materials Science (5 EC, Wurm)	AMM Inorganic Materials Science (5 EC, Baeumer)	
	AMM Characterization (5 EC, Huijser)	Statistical Thermo (2.5 EC, de Beer)	AMM Project Organic Materials (5 EC, Hempenius)	
	AMM Project Inorg. Materials & Mol. CT (5 EC, ten Elshof)			

Year 2				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
Core modules			Societal Embedding	
	Internship & Job Orientation Project (20 EC; Folkers)	Final Master Project (45 EC)		

Electives scheduled	Advanced Colloids and Interfaces (5 EC, Wood)	Electrochemistry: fundamentals and techniques (5 EC, Altomare)	Polymer Physics (5 EC, de Beer)	Polymer Synthesis (5 EC, Wurm)
	Advanced Catalysis (5 EC, Lefferts/Mul)	Advanced Ceramics (5 EC, Pizzoccaro-Zilmay)	Advanced Organic Chemistry (5 EC, Jonkheijm)	X-ray Characterisation for S&T (5 EC, Makhotkin)
		Lab on a chip (5 EC, Eijkel)	Elastomeric Science & Engineering (5 EC, Blume)	
		Advanced Molecular Separations (5 EC, de Vos/Schuur)		Biochemistry (5 EC, Poot)
		Advanced Drug Delivery and Nanomedicine (5 EC, Prakash)		Electrocatalysis: Materials and Spectroscopy (5 EC; Katsoukis)

2.5 EC Topics		Ion Transport in Fluids (Wood e.a.)	Chemical Process Analysis (Gardeniers)	Membrane Materials (Lammertink/de Vos/Benes)
		Fabri. of Nanostr. - Bottom-Up (Huskens)	Physical Organic Chemistry (Wong)	Chem. of Inorg. Mat. & Nanostr. (ten Elshof)
		Design and simulation of chemical batch processes (Franke)	Electrochemical Engineering (Mul)	Molecular Modeling (de Beer)
				Membrane Processes (Lammertink/de Vos/Benes)

Electives n.s.	Theory of Phase Equilibria (5 EC; van der Hoef)			
	Polymers & Material Science Practice (3 EC; Hempenius)			
	Capita Selecta Research Group (5 EC)			
	Contract Research (5 EC)			

Deficiency	Workshop Aca. Skills (0,5 EC)	
	Matlab for pre-masters ET (2 EC)	
	Math for Engineers (0 EC, optional)	