

Curriculum Molecular & Materials Engineering 2023-2024

Legend	Compulsory courses	Electives CSE MME	Electives CSE CPE	Electives non CSE
	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 & Polymer 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	Internship & Job Orientation Project (20 EC, Velthuis)		Societal Embedding	
			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)	Lab on a chip (5 EC, Eijkel)	Advanced Organic Chemistry (5 EC, Jonkheijm)	Advanced Ceramics (5 EC, Pizzoccaro-Zilmay)
		Advanced Molecular Separations (5 EC, de Vos/Schuur)	Elastomeric Science & Engineering (5 EC, Blume)	
		Advanced Drug Delivery and Nanomedicine (5 EC, Prakash)	Sustainable Nanotechnology (5 EC, Susarrey Arce)	
		Biomedical Materials Engineering (5 EC, Grijpma/Poot)		Biochemistry (5 EC, Poot)
				Electrocatalysis: Materials and Spectroscopy (5 EC, Katsoukis)
			X-ray Characterisation for S&T (5 EC, Makhotkin)	

2.5 EC Topics	Systems Chemistry (Wong)	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 (Huskens)	Molecular Modeling (de Beer)
		Design and simulation of chemical batch processes (Franke)	Nanochemistry (Wong)	
			Electrochemical Engineering (Banerjee)	Membrane Processes (Lammertink/de Vos/Benes)
		Advanced Reaction Kinetics (Faria)		

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)			