

Compulsory courses	Compulsory courses: Internship & MSc assignment	Deficiency courses
(Application of) Solid State Matter	(Bio)Molecular Matter	Nano-engineered Devices

Year 1				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
	Characterisation	Fabrication	Design + Application	Internship
Core modules	Characterization of Nanostructures (7.5 EC; Huijser)	Fabrication of Nanostructures (7.5 EC; Huskens)	Design project (10 EC; Tas)	Internship & Job Orientation Project (20 EC)
	Nano-Lab: Fabrication & Characterization (5 EC; Tiggelaar/Lukkien)			
	Nanoscience or Nanophysics (5 EC; Zandvliet)	SOL: Nano-electronics	SOL: AMM IMS	
		BMM: Nanomedicine	BMM: Bionanotechn.	
		SMS: Lab on a chip	SMS: Nanofluidics or MEMS-design	
Deficiency	Workshop Academic Skills	Matlab for pre-masters ET		
		A first practical course in Electronics		

Year 2				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
	Nano-research	Master's Final Project preparation, evaluation		
Core modules		Societal Embedding		
	SOL: Nanomat. research or Nano-optics	Master's Final Project (40 EC) <u>incl. societal embedding (3rd quarter)</u>		
	BMM: (Bio)mol C&T			
	SMS: Adv. Colloids & Interfaces			
	Elective (SEC)	1 Elective or C.S. research group in quarter 2, 3 or 4 (subjects from 1st year are also allowed)		

Electives				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
Electives	Nanophysics, Zandvliet + Li + Golubov	Theoretical solid state Physics, Kelly	Surfaces and thin layers, Wormeester+ Ackermann + Sturm + Zandvliet	Chem. of inorg. Mat. and nanostruc., Ten Elshof
	Quantum information, Renema	Quantum optics, Pinkse	Nanophotonics, Vos + Legendijk + Klärs	Modern topics in condensed matter, Houselt + Kooij + Wormeester + Zandvliet
	Biophysical techn. & molecular imaging, Otto + Blum	AMM Organic Materials Science, Vancso + de Beer + Duvigneau + Wurm + Gojzewski	Biomedical Signal Acquisition, Olthuis	
	Controlled Drug and Gene Delivery, Bansal			
	Transducer science, Krijnen	EMstatics, Krijnen	Design Principles for Precision Mechanisms, Brouwer (ET)	
	Systems-on-chip for embedded systems, Gerez + vdZee			
Electives n.s.	Macromolecular Nanotechnology, Vancso			
	Advanced semiconductor devices, Salm			