

Courses for the HRSMC Class of Excellence UL

Version June 2024



**HOLLAND
RESEARCH
SCHOOL
OF MOLECULAR
CHEMISTRY**

Master Course (6 ECTS)	HRSMC member involved	Master Track	HRSMC Theme		
			1	2	3
Organometallic Chemistry and Homogeneous Catalysis	E. Bouwman	ES	X		
Electrochemistry	M.T.M. Koper	ES	*	X	X
Photochemistry	S. Bonnet F. Buda	ES	*	X	X
Computational Chemistry and Molecular Simulations	F. Buda K. Doblhoff-Dier	ES	*		X
DFT in practice	J. Meyer	ES	*	*	X
Surface Science for Heterogeneous Catalysis	I.M.N. Groot	ES	X		
Photosynthesis and Bioenergy	A. Pandit	ES		X	
Theory of Spectroscopy and molecular properties (%)	F. Buda M. Somers	ES		X	X
Quantum Reaction Dynamics (#)	G.J. Kroes	ES		X	X
Dynamics of Molecule-Surface Reactions (#)	G.J. Kroes	ES			X
Bioinorganic Catalysis	D.G.H. Hetterscheid	ES	X		
Metals and Life	S. Bonnet	CB	X		
Computational Techniques for Chemical Biology	F. Buda A.P.A. Janssen G.J.P. van Westen	CB	*		X
Spectroscopy on Chemical Reactions and Environments	R.V. Mom	ES	*	X	
Cell Membranes and Membrane Transport	L.J.C. Jeuken	CB			
Quantitative MRI in Disease Diagnosis	A. Alia	CB			

ES: Energy and Sustainability (UL), CB: Chemical Biology (UL);

* = Can be very helpful for research related to catalysis/synthesis within theme 1.

(#) These courses are given alternately every other year. In 2024/25: Quantum Reaction Dynamics.

(%) These courses are biennial.