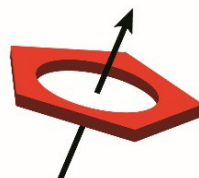


Courses for the HRSMC Class of Excellence UvA/VU

Version April 2021



**HOLLAND
RESEARCH
SCHOOL
OF MOLECULAR
CHEMISTRY**

Master Course (6 ECTS)	HRSMC member involved	Master Track	HRSMC Theme		
			1	2	3
Physical Organic Chemistry	J. C. Slootweg F. M. Bickelhaupt	MOL.Sc	X		
Homogeneous Catalysis	B. de Bruin J.N.H. Reek	MOL.Sc	X		
Synthetic Organic Chemistry	M.Á. Fernández- Ibáñez E. Ruijter J.H. van Maarseveen	MOL.Sc	X		
Quantum Theory of Molecules and Matter	W.J. Buma H. Zhang P. Gori-Giorgi	MOL.Sc	*	X	X
Statistical Theory of Complex Molecular Systems	P.G. Bolhuis B. Ensing	MOL.Sc			X
Advanced Computational Chemistry	C. Fonseca Guerra F.M. Bickelhaupt	MOL.Sc	*		X
Coordination and Organometallic Chemistry	B. de Bruin C.J. Elsevier	MOL.Sc	X		
Heterogeneous Catalysis	S. Grecea N.R. Shiju	MOL.Sc	X		
Bio-organic Chemistry	F. Mutti I. Drienovska	MOL.Sc	X		
Supramolecular Chemistry and Nanomaterials	J.N.H. Reek R.M. Williams	MOL.Sc	X		
Nuclear Magnetic Resonance	C.J. Elsevier A.M. Brouwer	MOL.Sc	*	X	
Advanced Spectroscopic Techniques	W.J. Buma	MOL.Sc	*	X	
Mass Spectrometry	S. Ingemann Jorgensen	AS	*	X	
Advanced Molecular Orbital Theory	F.M. Bickelhaupt C. Fonseca Guerra	MOL.Sc	*		X
Understanding Quantum Chemistry	L. Visscher	MOL.Sc	*		X
Relativistic Quantum Chemistry	L. Visscher	MOL.Sc			X
Scientific Computing and Programming	L. Visscher	MOL.Sc			X
Ab Initio Molecular Dynamics	E.J. Meijer	MOL.Sc	*		X
Concepts in Chemical Biology	T. Grossmann	MOL.Sc	X		

	S. Hennig				
Understanding Molecular Simulation	B. Ensing., E.J. Meijer, D. Dubbeldam, etc	MOL.Sc			X
Catalysis for sustainable energy	S. Grecea	SfES	X		
Green Chemistry	J.C. Slootweg	SfES	X		
Project Sustainable Future	J.C. Slootweg	SfES	X		
Biomolecular Simulations	P.G. Bolhuis J. Vreede	MOL.Sc			X

Mol.Sc: Molecular Sciences (UvA/VU); AS: Analytical Sciences (UvA/VU); SfES: Science for Energy and Sustainability (UvA/VU); * = Can be very helpful for research related to catalysis/synthesis within theme 1.