

Master's in Chemistry (M1 Chemistry and Life Science, M2 Organic Synthesis for Pharmaceutical and Agrochemical Industries, M2 Polymers for Advanced Technology)

Semester	Course Title	Course type	Course vol (h)	ECTS	Teacher's team	Teacher in charge of the course
S1 (M1) - Fall semester	Analytical Chemistry and Spectroscopy	Mandatory	50	6	C. Bougault, O. Stéphan, M. Jaquinod	Catherine Bougault
	Experimental Chemistry & Bibliographical search	Mandatory	52	6	B. Bessières, M. Jaquinod, O. Hamelin, C. Marchi-Delapierre, S. Carret	Bernard Bessières
	Organic Chemistry	Elective choose 3	50	6	B. Bessières, J.F. Poisson	Jean-François Poisson
	Chemistry and Physical Chemistry of Polymers		50	6	R. Auzély, F. Dubreuil, A. Szarpak-Jankowska	Rachel Auzély
	Reactivity and Transition Metals		50	6	H. Jamet, B. Bessières	Damien Jouvenot
	Biotechnologies produits et procédés (In French)		50	6	Y. Markowicz	Yves Markowicz
	Chimie et Biochimie cellulaire (In French)		50	6	F. Fieschi, I. Michaud-Sorret, E. de Rosny, H. Lortat-Jacob	Frank Fieschi
	Applied Theoretical Chemistry		50	6	A. Milet	Anne Milet
S2 (M1) - Spring semester	French Language (in French)	Mandatory		3		
	Professional Integration	Mandatory		3	A. Milet	Anne Milet
	Research Internship (8 wks min in France 12 abroad)	Mandatory		6	O. Hamelin, C. Bougault, H. Jamet, S. Py	Olivier Hamelin
	Heterocyclic & Bio-organic Chemistry	Elective Choose 2 or 3		6	E. Defrancq, S. Chierici, N. Spinelli	Eric Defrancq
	Organic Chemistry			6	Y. Vallée, F. Minassian	Yannick Vallée
	Bio-Inorganic Chemistry			6	F. Thomas, O. Jarjayes, C. Duboc, C. Gerez	Fabrice Thomas
	Chemistry of Polymers 2			3	R. Auzély, A. Szarpak-Jankowska	Rachel Auzély
	Physical Chemistry of Polymers 2			3	F. Dubreuil	Frédéric Dubreuil

	Micro-projects Organic Chemistry or Biology Chemistry or Polymers	Elective choose 0 or 1		6	R. Auzély, O. Renaudet, F. Minassian, J.F. Poisson, A. Szarpak-Jankowska	Rachel Auzély, Olivier Renaudet, Frédéric Minassian
S3 (M2) Polymers and Advanced Technologies - Fall semester	Polymer investigation tools	Mandatory	24	3	D. Djurado, M. Bardet, L. Heux	D. Djurado
	Functional analysis, formulation and coatings	Mandatory	34	3	A. Szarpak-Jankowska, P. Prêle, R. Bongiovanni	R. Bongiovanni
	Polymers for flexible electronics	Mandatory	24	3	S. Sadki, R. Demadrille	S. Sadki
	Biomaterials	Mandatory	24	3	R. Auzély-Vely	Rachel Auzély-Vely
	Polymers for new energies	Mandatory	24	3	S. Sadki, R. Demadrill, Cristina Iojoiu	Cristina Iojoiu
	Nanostructured materials	Mandatory	24	3	P. Mélé, L. Flandin	P. Mélé
	Polymer degradation & durability	Elective Choose 2	24	3	L. Gonon	L. Gonon
	Rheometry, structure & processing of polymers		24	3	N. El Kissi, F. Pignon, F. Caton	N. El Kissi
Biobased materials	24		3	A. Szarpak-Jankowska, J. Bras, L. Heux	Anna Szarpak-Jankowska	
S3 (M2) Organic Synthesis for Pharmaceutical and Agrochemical Industries - Fall semester	Green chemistry	Mandatory	40	6	Jean-françois Poisson, Yung-Sing Wong	Jean-François Poisson
	Asymmetric synthesis	Mandatory	40	6	Jean-françois Poisson, Yannick Vallée	Jean-François Poisson
	Synthetic strategies	Mandatory	40	6	Yannick Vallée	Yannick Vallée
	Heterocyclic chemistry	Mandatory	40	6	Martine Demeunynck, Sabine Chierici	Martine Demeunynck
	Molecular modelling	Mandatory	40	6	Yohann Moreau	Yohann Moreau
S3 (M2) Biorganic and Bioinorganic Chemistry - Fall semester	Metals in health and environment			6	Pascale Maldivi, Pascale Delangle	Pascale Delangle
	Biocatalysis			6	Fabrice Thomas, Stéphane Ménage	Fabrice Thomas
Bibliographical Project				6		
S4 (all M2) - Spring semester	Research or Industrial Project	Mandatory		27		Sandrine PY, Rachel Auzely