

## Cycle view of the study programme

		B1	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 38Cr)</b>							
CHIM0609-1	<i>Advanced organic chemistry</i> - André LUXEN	B1	Q1	30	-	-	4
CHIM0635-1	<i>Advanced physical chemistry</i> (english language) - Bernard LEYH - [5h QA Sess.]	B1	Q1	15	-	[+]	2
CHIM0636-1	<i>Macromolecular physical chemistry</i> (english language) - Christine JÉRÔME	B1	Q1	30	-	-	4
CHIM0637-3	<i>Chemistry of materials, Inorganic materials</i> (english language) - Bénédicte VERTRUYEN	B1	Q1	20	-	-	2
CHIM0637-4	<i>Chemistry of materials, Organic and biological materials</i> (english language) - AnneSophie DUWEZ	B1	Q2	20	-	-	2
BIOC0232-1	<i>Macromolecular biochemistry</i> (english language) - Moreno GALLEN	B1	Q1	30	30	-	4
CHIM0638-1	<i>Surfaces and interfaces</i> (english language) - AnneSophie DUWEZ	B1	Q1	15	-	-	2
CHIM0096-1	<i>Nuclear chemistry</i> (english language) - André LUXEN	B1	Q2	15	-	-	2
SMEM0015-1	<i>Final thesis</i> - COLLÉGIALITÉ	B1	TA	-	-	-	16

## Optional courses (B1 : 22Cr)

Choose courses, with the approval of the Jury, totalling 12 credits among : (B1 : 12Cr)

CHIM0081-3	<i>Industrial Chemistry Processes, structure of chemical industry</i> - Angélique LÉONARD - [1d FW]	B1	Q1	30	-	[+]	4
BIOL0114-4	<i>Electronic microscopies</i> - Philippe COMPÈRE	B1	Q2	15	-	-	2
CHIM9236-1	<i>Microstructure of Materials : characterization techniques</i> - Catherine HENRIST	B1	Q2	15	-	-	2
CHIM9264-1	<i>Electrical and magnetic properties of materials</i> - Bénédicte VERTRUYEN	B1	Q1	15	-	-	2
CHIM0642-1	<i>Molecular dynamics and photochemistry</i> - Bernard LEYH	B1	Q1	30	-	-	4
BIOC0719-1	<i>Enzymology</i> - André MATAGNE	B1	Q2	15	-	-	2
CHIM9259-2	<i>Analytical techniques in forensic chemistry</i> - JeanFrançois FOCANT	B1	Q2	15	-	-	2
CHIM0218-1	<i>Elements of medicinal chemistry</i> - Bernard PIROTTE	B1	Q2	15	-	-	2
CHIM9265-1	<i>Introduction to continuous flow organic synthesis</i> (english language) - JeanChristophe MONBALIU - [1d Vis.]	B1	Q2	15	10	[+]	4
CHIM0683-2	<i>Green chemistry</i> - Aurore RICHEL	B1	Q2	12	-	-	2

[...] In agreement with the Jury, choose courses for a total of 10 credits from the optional courses of the book 2 of the master in chemistry with focus.

## Additional ECTS Master in chemistry (60 ECTS)

### Optional courses (B0 : 60Cr)

Students will follow a study programme worth 15 to 60 ECTS selected from the courses below. The programme will be established by the master's jury for each student according to their qualifications. (B0 : 60Cr)

CHIM0704-1	<i>Theoretical chemistry</i> - Françoise REMACLE - [15h QA Sess.]	B0	Q1	25	-	[+]	4
CHIM9287-1	<i>Theoretical and quantum Chemistry</i> - Françoise REMACLE - [15h QA Sess.]	B0	Q1	30	-	[+]	4
CHIM9288-1	<i>Spectroscopy and statistical thermodynamics elements</i> - Bernard LEYH - [20h QA Sess.]	B0	Q1	30	-	[+]	4

CHIM0278-1	<i>Organic chemistry III</i> - Lionel DELAUDE - [15h QA Sess.]	B0	Q1	30	55	[+]	7
CHIM9289-1	<i>Analytical Chemistry III - Physical Methods</i> - Gauthier EPPE - [15h QA Sess.]	B0	Q1	30	65	[+]	8
CHIM0678-1	<i>Biochemistry</i> - André MATAGNE	B0	Q1	30	-	-	3
INFO0202-1	<i>Programming Methods Applied to Chemistry</i> - Alejandro SILHANEK	B0	Q2	15	15	-	2
PHYS0968-1	<i>Signal processing</i> - Alejandro SILHANEK	B0	Q2	25	20	-	4
CHIM9285-1	<i>Chemical Kinetics, Introduction to Spectrology and Group Theory</i> - Bernard LEYH - [20h QA Sess.]	B0	Q2	35	-	[+]	6
CHIM9291-1	<i>structural analysis</i> - Christian DAMBLON, Edwin DE PAUW	B0	Q2	45	-	-	4
CHIM0209-2	<i>Inorganic chemistry</i> - Bénédicte VERTRUYEN - [5h QA Sess., 1d Vis. Ind. Pl. ]	B0	Q2	30	70	[+]	8
CHIM0283-4	<i>Chemistry of the macromolecules</i> - Christine JÉRÔME	B0	Q2	20	20	-	4
PHIL0201-1	<i>Elements of sciences philosophy</i> - Julien PIERON	B0	Q2	15	-	-	2
CHIM9292-1	<i>chemical Kinetics</i> - Bernard LEYH - [10h QA Sess.]	B0	Q2	20	-	[+]	3
CHIM9293-1	<i>spectroscopy Integrated laboratory</i> - Christian DAMBLON, Edwin DE PAUW, Gauthier EPPE, Bernard LEYH, JeanChristophe MONBALIU, Françoise REMACLE	B0	Q2	-	105	-	6
CHIM9294-1	<i>Bibliographic research, research project</i> - Caroline COLLETTE, JeanChristophe MONBALIU - [30h Internship]	B0	Q2	5	-	[+]	2
LANG0077-1	<i>English 2</i> (english language) - Véronique DOPPAGNE, ISLV	B0	TA	45	-	-	4
LANG0082-1	<i>English 3</i> (english language) - Clara BRERETON, Véronique DOPPAGNE, Ellen HARRY, ISLV	B0	TA	45	-	-	4