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First Year

Compulsory courses

CHIM0213-2	<i>Structural analysis</i> (english language) - Christian DAMBLON, Edwin DE PAUW	Q1	45	-	-	4
CHIM0609-1	<i>Advanced organic chemistry</i> - André LUXEN		30	-	-	4
CHIM0635-1	<i>Advanced physical chemistry</i> (english language) - Bernard LEYH	Q1	30	-	-	4
CHIM0636-1	<i>Macromolecular physical chemistry</i> (english language) - Christine JÉRÔME	Q1	30	-	-	4
CHIM0637-1	<i>Chemistry of materials</i> (english language)	TA				4
	- <i>Inorganic materials</i> - Bénédicte VERTRUYEN	20	-	-		
	- <i>Organic and biological materials</i> - AnneSophie DUWEZ	20	-	-		
BIOC0232-1	<i>Macromolecular biochemistry</i> (english language) - Moreno GALLEN	Q1	30	30	-	4
CHIM0638-1	<i>Surfaces and interfaces</i> (english language) - AnneSophie DUWEZ	Q1	15	-	-	2
CHIM9219-1	<i>Theoretical and quantum chemistry</i> (english language) - Françoise REMACLE - [15h QA Sess.]	Q1	30	15	[+]	4
CHIM0096-1	<i>Nuclear chemistry</i> (english language) - André LUXEN		15	-	-	2
CHIM0645-1	<i>Integrated research project in laboratory (including group projects and bibliography)</i> - AnneSophie DUWEZ	TA	-	-	-	14

Optional courses

Choose courses totalling 14 ECTS from the following :

CHIM0081-3	<i>Industrial Chemistry Processes, structure of chemical industry</i> - Angélique LÉONARD - [1d FW]	Q1	30	-	[+]	4
BIOL0114-4	<i>Electronic microscopies</i> - Philippe COMPÈRE	Q2	15	-	-	2
CHIM9236-1	<i>Microstructure of Materials : characterization techniques</i> - Catherine HENRIST		15	-	-	2
CHIM9264-1	<i>Electrical and magnetic properties of materials</i> - Bénédicte VERTRUYEN	Q1	15	-	-	2
CHIM0642-1	<i>Molecular dynamics and photochemistry</i> - Bernard LEYH	Q2	30	-	-	4
BIOC0719-1	<i>Enzymology</i> - André MATAGNE	Q2	15	-	-	2
CHIM9259-2	<i>Analytical techniques in forensic chemistry</i> - JeanFrançois FOCANT	Q2	15	-	-	2
CHIM0218-1	<i>Elements of medicinal chemistry</i> - Bernard PIROTTE		15	-	-	2
CHIM9265-1	<i>Introduction to continuous flow organic synthesis</i> (english language) - JeanChristophe MONBALIU - [1d Vis.]	Q2	15	10	[+]	4
AESS0255-1	<i>Introduction to chemistry didactics</i> - Bernard LEYH	Q1	15	-	-	2

Second Year

Compulsory courses

CHIM0651-1	<i>Seminars (all fields of chemistry)</i> - AnneSophie DUWEZ	TA	-	-	-	2
SMEM0016-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	20

Optional courses

Choose, with the accord of the Jury, courses to a total of 8 credits from the list below or from othe Ulg Masters programmes or from outside the Ulg.

Synthesis and materials

CHIM0707-1	<i>Physical organic chemistry</i> - JeanChristophe MONBALIU	Q2	15	-	-	2
CHIM0246-1	<i>New reactions in organic synthesis</i> - Albert DEMONCEAU	TA	15	-	-	2
CHIM0656-1	<i>Organometallic Catalysis</i> - Lionel DELAUE	TA	15	-	-	2
CHIM0219-1	<i>Industrial polymers</i> - Christine JÉRÔME	Q2	15	-	-	2
CHIM0659-1	<i>Polymers and Environment</i> - Philippe LECOMTE, Jutta RIEGER		15	-	-	2
CHIM9260-1	<i>Properties and applications of surfactants</i> - Guy BROZE, Antoine DEBUIGNE	Q2	15	-	-	2
CHIM0248-1	<i>Advanced ceramic materials : synthesis, characterization and use</i> - Rudi CLOOTS		15	-	-	2
CHIM0088-1	<i>Nanomaterials, principles of synthesis and application</i> - Christophe DETREMBLEUR	Q1	15	-	-	2
CHIM0654-1	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	Q2	15	-	-	2

Techniques of characterization and analysis

CHIM0220-1	<i>Recent nuclear magnetic resonance (NMR) methods in chemistry</i> - Christian DAMBLON	Q1	15	-	-	2
CHIM9261-1	<i>Introduction to NMR in solid phase</i> - Christian DAMBLON, Philippe LECOMTE, Bénédicte VERTRUYEN		15	-	-	2
CHIM9221-1	<i>Advanced techniques in nuclear magnetic resonance of biomolecules</i> - Christian DAMBLON		15	-	-	2
CHIM0653-1	<i>Imaging and marking techniques</i> - André LUXEN		15	-	-	2
CHIM0655-1	<i>Advanced mass spectrometry methods</i> - Edwin DE PAUW	TA	15	-	-	2
CHIM0657-1	<i>Emerging techniques in the science of separation</i> - JeanFrançois FOCANT	Q2	15	-	-	2
CHIM0248-1	<i>Advanced ceramic materials : synthesis, characterization and use</i> - Rudi CLOOTS		15	-	-	2
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	Q2	15	-	-	2
CHIM0693-1	<i>Major instruments for studying the subject</i> - Raphaël HERMANN - [2d Vis.]	Q2	10	10	[+]	2

Biological chemistry

CHIM9221-1	<i>Advanced techniques in nuclear magnetic resonance of biomolecules</i> - Christian DAMBLON		15	-	-	2
CHIM0655-1	<i>Advanced mass spectrometry methods</i> - Edwin DE PAUW	TA	15	-	-	2
CHIM9262-1	<i>Biomimetic chemistry : when the Man is inspired by nature</i> - Loïc QUINTON	Q2	15	-	-	2

Modelling and molecular dynamics

CHIM0707-1	<i>Physical organic chemistry</i> - JeanChristophe MONBALIU	Q2	15	-	-	2
CHIM0654-1	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	Q2	15	-	-	2
CHIM0090-1	<i>Theory and modeling of hybrid molecular complexes</i> - Françoise REMACLE	Q1	15	-	-	2
CHIM0089-1	<i>Molecular logic</i> - Françoise REMACLE	Q1	15	-	-	2
CHIM0231-1	<i>Chemical reaction dynamics : experimental approaches</i> - Bernard LEYH	TA	15	-	-	2
SPAT0054-1	<i>Astrophysics and astrochemistry</i> - Michaël DE BECKER	Q2	15	5	-	2

Programme of courses for other masters degrees

[...] Programme of courses of other Master in the ULg and out of the ULg

Compulsory courses

CHIM0022-3	<i>Transport phenomena (english language)</i> - Andreas PFENNIG		30	-	-	4
CHIM0679-1	<i>Introduction to quality assurance (english language)</i> - JeanFrançois FOCANT	Q2	15	-	-	2
CHIM0074-2	<i>Seminars on industrial security</i> - JeanLuc BOZET, Angélique LÉONARD, Dominique TOYE - [2d FW]	Q1	15	-	[+]	2
TOXI0004-1	<i>Principles of toxicology</i> - Corinne CHARLIER	Q1	20	-	-	3
GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	Q1	24	-	-	3
SSTG0008-1	<i>Internship</i> - COLLÉGIALITÉ		-	-	-	14
SSTG0028-1	<i>Placement monitoring</i> - COLLÉGIALITÉ		-	-	-	2