

First Year

Compulsory courses

CHIM0213-2	<i>Structural analysis</i> (english language) - Christian DAMBLON, Edwin DE PAUW	45	-	-	4
CHIM0609-1	<i>Advanced organic chemistry</i> - André LUXEN	30	-	-	4
CHIM0635-1	<i>Advanced physical chemistry</i> (english language) - Bernard LEYH	30	-	-	4
CHIM0636-1	<i>Macromolecular physical chemistry</i> (english language) - Christine JÉRÔME	30	-	-	4
CHIM0637-1	<i>Chemistry of materials</i> (english language)				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	30	30	-	4
CHIM0638-1	<i>Surfaces and interfaces</i> (english language) - AnneSophie DUWEZ	15	-	-	2
CHIM9219-1	<i>Theoretical and quantum chemistry</i> (english language) - Françoise REMACLE - [15h QA Sess.]	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				14

Optional courses

Choose courses totalling 14 ECTS from the following :

CHIM0081-1	<i>Industrial Chemistry Processes, structure of chemical industry</i> - Angélique LÉONARD - Suppl : Georges HEYEN	30	-	-	4
BIOL0114-4	<i>Electronic microscopies</i> - Philippe COMPÈRE	15	-	-	2
CHIM9236-1	<i>Microstructure of Materials : characterization techniques</i> - Catherine HENRIST	15	-	-	2
CHIM0641-1	<i>Electronic, optical and magnetic properties of solids</i> - Bénédicte VERTRUYEN	15	-	-	2
CHIM0642-1	<i>Molecular dynamics and photochemistry</i> - Bernard LEYH	30	-	-	4
BIOC0719-1	<i>Enzymology</i> - André MATAGNE	15	-	-	2
CHIM9258-1	(pas organisé en 2012-2013) <i>Thermodynamic and spectroscopic characterization of biomolecules</i> - N...	15	-	-	2
CHIM9259-2	<i>Analytical techniques in forensic chemistry</i> - JeanFrançois FOCANT	15	-	-	2
CHIM0218-1	<i>Elements of medicinal chemistry</i> - Bernard PIROTTE	15	-	-	2
AESS0255-1	<i>Introduction to chemistry didactics</i> - Bernard LEYH	15	-	-	2

Second Year

Compulsory courses

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

Optional courses

Choose, with the approval of the Board of Studies in Chemistry, courses totaling 8 credits from the list below or from the programme of other masters inside or outside the ULg.

Synthesis and materials

CHIM0246-1	<i>New reactions in organic synthesis</i> - Albert DEMONCEAU	15	-	-	2
CHIM0656-1	<i>Organometallic Catalysis</i> - Lionel DELAUDE	15	-	-	2
CHIM0219-1	<i>Industrial polymers</i> - Christine JÉRÔME	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	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	15	-	-	2
CHIM0654-1	<i>Molecular devices and molecular machines</i> - AnneSophie DUWEZ	15	-	-	2

Techniques of characterization and analysis

CHIM0220-1	<i>Recent nuclear magnetic resonance (NMR) methods in chemistry</i> - Christian DAMBLON	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	15	-	-	2
CHIM0657-1	<i>Emerging techniques in the science of separation -</i> JeanFrançois FOCANT	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	15	-	-	2
CHIM0693-1	<i>Major instruments for studying the subject -</i> Raphaël HERMANN - [2d Vis.]	10	10	[+]	2

Biological chemistry

CHIM0652-1	<i>Molecular recognition and non-covalent interactions -</i> Valérie GABELICA	15	-	-	2
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	15	-	-	2
CHIM9262-1	<i>Biomimetic chemistry : when the Man is inspired by nature -</i> Loïc QUINTON	15	-	-	2

Modelling and molecular dynamics

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

AESS0246-1	<i>Analysis of scholastic institutions and key-players, educational policies -</i> Jacqueline BECKERS	15	-	-	1
AESS0247-1	<i>Views on cultural diversity -</i> Jérôme JAMIN	10	-	-	1
AESS0248-1	<i>Elements of sociology of education -</i> JeanFrançois GUILLAUME	10	-	-	1
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship -</i> Anne HERLA	25	-	-	2
AESS0202-1	<i>General didactics: course and exercises ; observation placements ; reflexive practices -</i> Annick FAGNANT - [10h Internship]	30	10	[+]	4
AESS0004-1	<i>Media education -</i> Geneviève VAN CAUWENBERGE	15	-	-	1
AESS0249-1	<i>Interdisciplinary seminar -</i> Annick FAGNANT	15	-	-	1
AESS0143-1	<i>Educational Psychology of adolescents and young adults -</i> Annick FAGNANT	15	-	-	2
AESS0142-1	<i>Seminar on prevention and management of difficult school situations -</i> Jocelyne ROBERT	15	-	-	2
AESS1216-1	<i>Specialized chemistry didactics : course and exercises (1st part) -</i> Bernard LEYH	40	-	-	3
AESS1219-1	<i>Specialized chemistry didactics : placements (1st part)</i> - <i>Observation placements -</i> Bernard LEYH - [10h Internship]	-	-	[+]	3
	- <i>Teaching placements -</i> Bernard LEYH - [20h Internship]	-	-	[+]	
	- <i>Reflexive practical work -</i> Bernard LEYH	-	5	-	
AESS2216-1	<i>Special didactics in chemistry : course and exercises (2nd part) -</i> Bernard LEYH	35	-	-	4
AESS2219-1	<i>Special didactics in chemistry : placements (2nd part)</i> - <i>Teaching placements -</i> Bernard LEYH - [20h Internship]	-	-	[+]	5
	- <i>Reflexive practical work -</i> Bernard LEYH	-	5	-	
	- <i>Extra-scholar teaching activities -</i> Bernard LEYH	-	10	-	