

First Year

Compulsory courses

CHIM0213-2	<i>Structural analysis</i> - 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> - Bernard LEYH	30	-	-	4
CHIM0636-1	<i>Macromolecular Physical Chemistry</i> - Christine JÉRÔME	30	-	-	4
CHIM0637-1	<i>Chemistry of materials</i>				4
	- <i>Inorganic materials</i> - Bénédicte VERTRUYEN	20	-	-	
	- <i>Organic and biological materials</i> - Anne-Sophie DUWEZ	20	-	-	
BIOC0232-1	<i>Macromolecular Biochemistry</i> - Moreno GALLENI	30	30	-	4
CHIM0638-1	<i>Surfaces and interfaces</i> - Anne-Sophie DUWEZ	15	-	-	2
CHIM9219-1	<i>Theoretical and Quantum Chemistry</i> - Françoise REMACLE - [15h QA Sess.]	30	15	[+]	4
CHIM0096-1	<i>Nuclear chemistry</i> - André LUXEN	15	-	-	2
CHIM0645-1	<i>Integrated research project in laboratory</i> - Anne-Sophie 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	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
CHIM0643-1	<i>Biomolecule thermodynamics</i> - Valérie GABELICA	15	-	-	2
CHIM0644-1	<i>Advanced analytical techniques</i> - Jean-François FOCANT	30	-	-	4
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> - Anne-Sophie 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 DELAUE	15	-	-	2
CHIM0219-1	<i>Industrial polymers</i> - Christine JÉRÔME	15	-	-	2
CHIM0659-1	<i>Polymers and Environment</i> - Philippe LECOMTE	15	-	-	2
CHIM0661-1	<i>Advanced polymers and composites</i> - 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
CHIM0660-1	<i>Biomimetic systems and intelligent materials</i> - Jutta RIEGER	15	-	-	2
CHIM0654-1	<i>Molecular devices and molecular machines</i> - Anne-Sophie DUWEZ	15	-	-	2

Techniques of characterization and analysis

CHIM0658-1	<i>Analytical Electrochemistry</i> - Bernard GILBERT	15	-	-	2
CHIM0220-1	<i>Recent nuclear magnetic resonance (NMR) methods in chemistry</i> - Christian DAMBLON	15	-	-	2
CHIM0247-1	<i>Nuclear magnetic resonance in the solid phase : from spectroscopy to imaging</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> - Jean-François FOCANT	15	-	-	2
CHIM0248-1	<i>Advanced ceramic materials : synthesis, characterization and use</i> - Rudi CLOOTS	15	-	-	2
CRIS0204-1	<i>Crystallography - additional issues</i> - Frédéric HATERT	15	-	-	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
Modelling and molecular dynamics					
CHIM0654-1	<i>Molecular devices and molecular machines</i> - Anne-Sophie 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
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> - Jean-François GUILLAUME	10	-	-	1
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship</i> - Véronique DORTU	25	-	-	2
AESS0202-1	<i>General didactics: courses 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> - Nicolas LECLERCQ	15	-	-	1
AESS0143-1	<i>Educational Psychology of adolescents and young adults</i> - Dieudonné LECLERCQ	15	-	-	2
AESS0142-1	<i>Seminar on prevention and management of difficult scholastic situations</i> - Jocelyne ROBERT	15	-	-	2
AESS0216-1	<i>Specialized chemistry didactics (Part I)</i> - Course and exercises - Bernard LEYH	40	-	-	6
	- Observation practicums - Bernard LEYH - [10h Internship]	-	-	[+]	
	- Teaching practicums - Bernard LEYH - [20h Internship]	-	-	[+]	
	- Reflexive practice - Bernard LEYH	-	5	-	
AESS0234-1	<i>Specialized chemistry didactics (part II)</i> - Course and exercises - Bernard LEYH	35	-	-	9
	- Teaching practicums - Bernard LEYH - [20h Internship]	-	-	[+]	
	- Reflexive practice - Bernard LEYH	-	5	-	
	- Extra-scholar teaching activities - Bernard LEYH	-	10	-	