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## A single 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
SMEM0015-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	16

### Optional courses

Choose courses totalling 12 ECTS from the following :

#### Chemistry

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

#### Environmental management

ENVT0031-2	<i>Society / Environment</i> - Dorothée DENAYER, François MELARD	Q2	24	12	-	3
ENVT0030-2	<i>Managing the environment</i> - JeanMarie HAUGLUSTAINE, François MELARD, Pierre M. STASSART	Q2	24	12	-	3
ENVT0034-1	<i>Environmental data management</i> - Philippe ANDRE, AnneClaude ROMAIN, Bernard TYCHON	TA	12	12	-	2
ENVT0013-3	<i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Nathalie SEMAL	Q2	12	12	-	2
ENVT0848-3	<i>Impacts of human activities on ecosystems and including land use</i> - Dorothée DENAYER, Célia JOAQUIMJUSTO, Angélique LÉONARD, Roberto RENZONI	Q1	20	10	-	2

*Notice* : students who have chosen all classes in the 'Environmental Sciences and Management' module will have direct access to the 2nd year of the Masters in Environmental Sciences and Management, organised at the Arlon campus. Other students will also have access to the 2nd year of the Masters in Environmental Sciences and Management, on the condition that they follow classes corresponding to these 12 credits in addition to the 60 credits from this study year.