

#### Cycle view of the study programme

		B1	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 30Cr)</b>							
GEOL0301-1	<i>Cartography and geomodelling (personnal work) - HansBalder HAVENITH - [15d FW]</i>	B1	Q2	10	30	[+]	10
GEOL0318-1	<i>Geocommunication - Annick ANCEAU, COLLÉGIALITÉ</i>	B1	Q1	20	-	-	3
SMEM0021-1	<i>Final thesis - COLLÉGIALITÉ</i>	B1	TA	-	-	-	17
<b>Optional courses (B1 : 30Cr)</b>							
In agreement with the jury, chose courses that haven't already been taken for a total of 30 credits, in at least two different areas, from among: (B1 : 30Cr)							
<b>Resources and methods</b>							
GEOL0296-1	<i>Clays and environment - Nathalie FAGEL - [1d FW]</i>	B1	Q1	15	15	[+]	4
GEOL0020-7	<i>Mineral resources (english language) - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.]</i>	B1	Q1	26	-	[+]	5
GEOL0277-1	<i>Groundwater quality and protection - Serge BROUYÈRE - [1d FW, 35h Proj.]</i>	B1	Q1	20	20	[+]	5
GEOL0237-2	<i>Exploitation of mineral deposits - Eric POOT - [2d FW]</i>	B1	Q1	25	15	[+]	5
GEOL1021-1	<i>Introduction to geophysical exploration - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]</i>	B1	Q2	30	30	[+]	6
CRIS0204-1	<i>Complement of crystallography - Frédéric HATERT</i>	B1	Q2	15	10	-	3
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications - Michel EVERAERTS</i>	B1	Q2	15	15	-	4
GEOL1040-1	<i>Metallogeny - Bernard CHARLIER</i>	B1	Q2	15	15	-	4
GEOL0008-2	<i>Origin and production of hydrocarbons - Geology applied to the exploration of hydrocarbons - Pierre CORNET</i>	B1	Q1	15	-	-	4
	<i>- Additional theory and practice - Pierre CORNET</i>			5	20	-	
	<b>Corequisite :</b> GEOL0008-3 - Genèse et production des hydrocarbures						
GEOL1041-1	<i>Gemmology and Analytical Mineralogy - Frédéric HATERT</i>	B1	Q1	15	15	-	3
GCIV0620-1	<i>Introduction to geotechnics - Robert CHARLIER - [1d FW]</i>	B1	Q1	30	20	[+]	5
GEOL0313-1	<i>Remediation of contaminated sites - Serge BROUYÈRE - [2d FW, 40h Proj.]</i>	B1	Q1	24	24	[+]	4
GEOL0008-3	<i>Origin and production of hydrocarbons, Techniques for extracting non-conventional hydrocarbons - Xavier LIMPENS (Even years)</i>	B1	Q1	15	-	-	3
	<b>Corequisite :</b> GEOL0008-2 - Genèse et production des hydrocarbures						
GEOL0225-3	<i>Analytical geochemistry - Nathalie FAGEL - [1d FW] (Even years)</i>	B1	Q1	10	10	[+]	3
GEOL0048-2	<i>Statistical Analysis of Geological Data</i>	B1	Q2	15	35	-	5
GEOL1046-1	<i>Geothermy (english language) - Robert CHARLIER, Alain DASSARGUES, HansBalder HAVENITH - [40h Proj., 1d FW]</i>	B1	Q2	18	15	[+]	5
<b>Evolution of the Earth and the biosphere</b>							
GEOL1049-1	<i>Palaeobiology (english language) - Julien DENAYER, Valentin FISCHER - [2d FW]</i>	B1	Q1	25	15	[+]	4
SPAT0027-3	<i>Climate change and impacts (english language) - Louis FRANÇOIS, Guy MUNHOVEN</i>	B1	TA	15	45	-	4
CLIM0009-1	<i>Biogeochemical cycle modelling and global changes - Louis FRANÇOIS</i>	B1	Q1	20	20	-	4

SPAT0054-1	<i>Astrophysics and astrochemistry</i> - Michaël DE BECKER	B1	Q2	15	5	-	3
GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	B1	Q1	20	10	-	3
GEOL0099-1	<i>Evolution of the Phanerozoic biosphere</i> (english language) - Valentin FISCHER - [2d FW]	B1	Q1	20	-	[+]	3
GEOL0263-1	<i>Astrobiology</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	B1	Q2	30	15	-	5
GEOL0224-2	<i>Paleoclimatology</i> - [1d FW] (Odd years)	B1	Q1	15	15	[+]	4
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> (Odd years)	B1	Q2	30	-	-	4
<b>Geological processes</b>							
GEOL0319-1	<i>Geological hazard and risk assessment, From theory to field work</i> (english language) - HansBalder HAVENITH - [2d FW]	B1	Q2	25	10	[+]	4
GEOL0213-1	<i>Geodynamics</i> - Bernard BINGEN <b>Corequisite :</b> GEOL0209-1 - Géochimie isotopique et géochronologie	B1	Q2	15	-	-	3
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [1d FW] (Even years)	B1	Q2	15	8	[+]	3
GEOL1039-2	<i>Geological oceanography, From theory to field work</i> - Nathalie FAGEL - [1d FW]	B1	Q1	20	20	[+]	4
GEOL0256-1	<i>Marine sediment geochemistry</i> (english language) - Nathalie FAGEL	B1	Q1	15	15	-	4
GEOL0292-1	<i>Sedimentology applied to archaeology</i> - Stéphane PIRSON - [8d FT Tr. Pr.]	B1	Q2	30	-	[+]	5
GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology</i> (english language) - Clara BRERETON, HansBalder HAVENITH - [2d FW]	B1	Q1	25	15	[+]	4
GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	B1	Q1	15	15	-	3
GEOL0282-2	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	B1	Q1	15	15	-	3
GEOL0209-1	<i>Isotopic geochemistry</i> - Jacqueline VANDER AUWERA	B1	Q1	20	10	-	3
GEOL0302-1	<i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years) <b>Corequisite :</b> GEOL0209-1 - Géochimie isotopique et géochronologie	B1	Q2	20	30	-	5
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	B1	Q2	15	15	-	4
GEOL0303-1	<i>Geomagnetism and environmental magnetism</i> (english language) - AnneChristine DA SILVA (Even years)	B1	Q2	15	5	-	3
GEOL1030-1	<i>Meteoric palaeoweathering</i> - [1d FW] (Odd years)	B1	Q2	12	12	[+]	3
[...]	1 or 2 course(s) from the courses' programme of the University of Liege						

## Additonal ECTS (max 60) Master in geology

### Optional courses (B0 : 60Cr)

The update course, worth a maximum of 60 credits, will be determined based on students' prior training. (B0 : 60Cr)

[...] At most 60 credits of courses from "Bachelier en sciences géologiques"