

#### Block view of the study programme

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#### Block 1

##### Compulsory courses

GEOL0210-1	<i>Fieldwork in foreign countries</i> - Olivier BOLLE, Bernard CHARLIER, AnneChristine DA SILVA, Nathalie FAGEL, Valentin FISCHER, Frédéric HATERT, HansBalder HAVENITH, Cyrille PRESTIANNI, Jacqueline VANDER AUWERA - [10d FW]	Q2	-	-	[+]	5
GEOL0301-1	<i>Cartography and geomodelling (personnal work)</i> - HansBalder HAVENITH - [15d FW]	TA	10	30	[+]	10

##### Optional courses

In agreement with the Jury, choose courses not already taken for a total of 45 credits, in at least two different fields, among:

##### Resources and methods

GEOL0209-1	<i>Isotopic geochemistry</i> - Jacqueline VANDER AUWERA	Q1	20	10	-	3
GEOL1041-1	<i>Gemmology and Analytical Mineralogy</i> - Frédéric HATERT	Q1	15	15	-	3
GEOL0296-1	<i>Clays and environment</i> - Nathalie FAGEL - [1d FW] (Even years)	Q1	15	15	[+]	4
GEOL0020-7	<i>Mineral resources</i> (english language) - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.]	Q1	26	-	[+]	5
GEOL0277-1	<i>Groundwater quality and protection</i> (english language) - Serge BROUYÈRE - [1d FW, 35h Proj.]	Q1	20	20	[+]	5
GEOL0313-1	<i>Remediation of contaminated sites</i> (english language) - Serge BROUYÈRE - [2d FW, 40h Proj.]	Q1	24	24	[+]	4
GEOL0237-2	<i>Exploitation of mineral deposits</i> (english language) - Nicolas VASBINDER - [2d FW]	Q1	25	15	[+]	5
GEOL0021-7	<i>Geophysical prospecting</i> - Frédéric NGUYEN - [5d FW, 20h Proj.]	Q2	26	20	[+]	5
GCIV0620-1	<i>Introduction to geotechnics</i> - Part A - Bertrand FRANÇOIS - [1d FW] - Part B	Q1	20 10	10 10	[+] -	5
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	Q2	15	10	-	3
GEOL1040-1	<i>Metallogeny</i> - Bernard CHARLIER	Q2	15	15	-	4
GEOL0008-2	<i>Hydrocarbons and energy transition - Exploration</i> - Energy context and exploration of hydrocarbons - Pierre CORNET - Additional theory and practice - Pierre CORNET	Q1	15 5	- 20	- -	4
GEOL1050-1	<i>Hydrocarbons and the energy transition - Techniques for extracting hydrocarbons and reducing emissions</i> - Xavier LIMPENS	Q1	15	-	-	3
GEOL0225-3	<i>Analytical geochemistry</i> - Nathalie FAGEL - [1d FW] (Odd years)	Q2	10	10	[+]	3
GEOL1046-1	<i>Geothermal energy</i> (english language) - Alain DASSARGUES, Bertrand FRANÇOIS - [40h Proj., 1d FW]	Q2	18	15	[+]	5

##### Evolution of the Earth and the biosphere

GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	Q1	15	15	-	3
GEOL0099-1	<i>Biodiversity and extinctions</i> (english language) - Valentin FISCHER - [2d FW]	Q1	25	-	[+]	3
GEOL0224-2	<i>Paleoclimatology</i> - Nathalie FAGEL - [1d FW]	Q1	15	15	[+]	3
GEOL1022-2	<i>Origin and early evolution of life</i> (english language) - Emmanuelle JAVAUX	Q1	20	10	-	3

GEOL1049-1	<i>Palaeobiology (english language)</i> - Julien DENAYER, Valentin FISCHER - [2d FW]	Q1	25	15	[+]	4
SPAT0027-3	<i>Climate change and impacts (english language)</i> - Louis FRANÇOIS, Guy MUNHOVEN	TA	30	30	-	5
CLIM0009-1	<i>Biogeochemical cycle modelling and global changes</i> - Louis FRANÇOIS	Q1	20	20	-	4
SPAT0054-1	<i>Astrophysics and astrochemistry</i> - Michaël DE BECKER	Q2	20	-	-	3
GEOL0263-1	<i>Astrobiology (english language)</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	Q2	45	-	-	5
GEOL0282-2	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	Q1	15	15	-	3
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Cyrille PRESTIANNI (Odd years)	Q2	30	-	-	4

#### Geological processes

GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology (english language)</i> - Clara BRERETON, HansBalder HAVENITH - [2d FW]	Q1	25	15	[+]	4
GEOL0319-1	<i>Geological hazard and risk assessment, From theory to field work (english language)</i> - HansBalder HAVENITH - [2d FW] (Odd years)	Q2	25	10	[+]	4
GEOL0213-1	<i>Geodynamics</i> - Bernard BINGEN	Q2	15	-	-	3
GEOG0212-1	<i>Pedology</i> - Gilles COLINET, JeanThomas CORNELIS - Suppl : Marie DINCHER - [1d FW] (Even years)	Q2	15	8	[+]	3
GEOL1039-2	<i>Geological oceanography, From theory to field work</i> - Nathalie FAGEL - [1d FW]	Q1	20	20	[+]	4
GEOL0256-1	<i>Marine sediment geochemistry (english language)</i> - Nathalie FAGEL	Q1	15	15	-	4
GEOL0292-1	<i>Sedimentology applied to archaeology</i> - Stéphane PIRSON - [8d FT Tr. Pr.]	Q2	30	-	[+]	5
GEOL0302-1	<i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years)	Q2	15	15	-	4
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	Q2	15	15	-	4
GEOL0303-1	<i>Geomagnetism and environmental magnetism (english language)</i> - AnneChristine DA SILVA (Even years)	Q2	15	5	-	3

[...] One or two listed courses chosen from programmes in other parts of the Faculty of Sciences, other faculties or other universities.

#### Block 2

##### Compulsory courses

SMEM0022-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	27
GEOL0318-1	<i>Scientific writing and communication</i> - Annick ANCEAU, COLLÉGIALITÉ	Q1	-	20	-	3

##### Focus courses

###### Single focus

###### Research Focus

SSTG0011-1	<i>Work placement</i> - COLLÉGIALITÉ - [4w Internship]	Q2	-	-	[+]	10
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Choose courses, with the approval of the Jury, totalling 20 credits among :

[...] choose extra courses from the ULiège curriculum that haven't already been chosen for a total of 11 to 20 credits

[...] Maximum 9 ECTS can be chosen in the courses' programme of another university

#### Bloc d'aménagement du programme de l'année

**Additional ECTS (max 60) Master in geology (120 ECTS)**

**Compulsory courses**

GEOL1033-1	<i>Crystallography and Mineralogy - Part A</i> - Frédéric HATERT	Q1	20	30	-	<b>4</b>
PALE0202-3	<i>Paleobotany</i> - Cyrille PRESTIANNI - [1d FW]	Q2	20	20	[+]	<b>4</b>
GEOL1034-1	<i>Crystallography and Mineralogy - Part B</i> - Frédéric HATERT - [3d FW]	Q2	10	20	[+]	<b>4</b>
GEOL0018-1	<i>Sedimentology and sedimentary petrology</i> - Frédéric BOULVAIN	Q1	30	30	-	<b>5</b>
GEOL0029-5	<i>Tectonics</i>	Q1				<b>5</b>
	- <i>Part A</i> - Olivier BOLLE		30	20	-	
	- <i>Part B</i> - Olivier BOLLE		10	10	-	
GEOL0013-5	<i>Hydrogeology</i>	Q1				<b>4</b>
	- <i>Part A</i> - Alain DASSARGUES - [1d FW]		26	20	[+]	
	- <i>Part B</i> - [10h Proj.]		-	-	[+]	
GEOL0320-1	<i>Cosmochemistry and geochemistry</i> - Jacqueline VANDER AUWERA	Q1	25	-	-	<b>2</b>
GEOL1035-1	<i>Magmatic Petrology</i> - Jacqueline VANDER AUWERA	Q1	15	25	-	<b>4</b>
GEOL1037-2	<i>X-ray Crystallography, Part A</i> - Frédéric HATERT	Q1	10	10	-	<b>2</b>
GEOL0284-1	<i>Geology of Wallonia</i> - Frédéric BOULVAIN - [6d FW]	Q2	20	-	[+]	<b>4</b>
GEOL0268-2	<i>Introduction to Research</i> - Annick ANCEAU, COLLÉGIALITÉ	Q2	20	20	-	<b>5</b>
GEOL0300-1	<i>Structural geology and geomorphology, digital mapping</i> - HansBalder HAVENITH - [3d FW]	Q2	10	20	[+]	<b>3</b>
GEOL1036-1	<i>Metamorphic Petrology</i> - Jacqueline VANDER AUWERA	Q2	15	25	-	<b>3</b>
GEOL0321-1	<i>Sedimentary geochemistry</i> - Nathalie FAGEL	Q2	15	15	-	<b>2</b>
LANG0077-1	<i>English 2 (english language)</i> - Clara BRERETON, Véronique DOPPAGNE	TA	45	-	-	<b>3</b>