

#### Block view of the study programme

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#### Block 1

##### Compulsory courses

GEOL0210-1	<i>Fieldwork in foreign countries</i> - Frédéric BOULVAIN, Nathalie FAGEL, Valentin FISCHER, Frédéric HATERT, HansBalder HAVENITH, Emmanuelle JAVAUX, Jacqueline VANDER AUWERA - [10d FW]	Q2	-	-	[+]	5
GEOL0301-1	<i>Cartography and geomodelling (personnal work)</i> - HansBalder HAVENITH - [15d FW]	Q2	10	30	[+]	10
GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	Q1	15	15	-	3
GEOL0099-1	<i>Evolution of the Phanerozoic biosphere (english language)</i> - Valentin FISCHER - [2d FW]	Q1	20	-	[+]	3
GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	Q1	20	10	-	3
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
GEOL0282-2	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	Q1	15	15	-	3
GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology (english language)</i> - Clara BRERETON, HansBalder HAVENITH - [2d FW]	Q1	25	15	[+]	4

##### Optional courses

In agreement with the jury, chose courses that haven't already been taken for a total of 23 credits, in at least two different areas, from among:

##### Resources and methods

GEOL0296-1	<i>Clays and environment</i> - Nathalie FAGEL - [1d FW]	Q1	15	15	[+]	4
GEOL0020-7	<i>Mineral resources (english language)</i> - Eric PIRARD - [1d FW, 26h Labo., 32h Proj.]	Q1	26	-	[+]	5
GEOL0277-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE - [1d FW, 35h Proj.]	Q1	20	20	[+]	5
GEOL0313-1	<i>Remediation of contaminated sites</i> - Serge BROUYÈRE - [2d FW, 40h Proj.]	Q1	24	24	[+]	4
GEOL0237-2	<i>Exploitation of mineral deposits</i> - Eric POOT - [2d FW]	Q1	25	15	[+]	5
GEOL1021-1	<i>Introduction to geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]	Q2	30	30	[+]	6
GCIV0620-1	<i>Introduction to geotechnics</i> - Robert CHARLIER - [1d FW]	Q1	30	20	[+]	5
GEOL0048-2	<i>Statistical Analysis of Geological Data</i>	Q2	15	35	-	5
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	Q2	15	10	-	3
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications</i> - Michel EVERAERTS	Q2	15	15	-	4
GEOL1040-1	<i>Metallogeny</i> - Bernard CHARLIER	Q2	15	15	-	4
GEOL0008-2	<i>Origin and production of hydrocarbons</i> - <i>Geology applied to the exploration of hydrocarbons</i> - Pierre CORNET - <i>Additional theory and practice</i> - Pierre CORNET	Q1	15	5	-	4
<b>Corequisite :</b> GEOL0008-3 - Genèse et production des hydrocarbures						
GEOL0008-3	<i>Origin and production of hydrocarbons, Techniques for extracting non-conventional hydrocarbons</i> - Xavier LIMPENS (Even years)	Q1	15	-	-	3
<b>Corequisite :</b> GEOL0008-2 - Genèse et production des hydrocarbures						

GEOL0225-3	<i>Analytical geochemistry</i> - Nathalie FAGEL - [1d FW] (Even years)	Q1	10	10	[+]	3
GEOL1046-1	<i>Geothermy</i> (english language) - Robert CHARLIER, Alain DASSARGUES, HansBalder HAVENITH - [40h Proj., 1d FW]	Q2	18	15	[+]	5

#### Evolution of the Earth and the biosphere

GEOL1049-1	<i>Palaeobiology</i> (english language) - Julien DENAYER, Valentin FISCHER - [2d FW]	Q1	25	15	[+]	4
SPAT0027-3	<i>Climate change and impacts</i> (english language) - Louis FRANÇOIS, Guy MUNHOVEN	TA	15	45	-	4
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	15	5	-	3
GEOL0263-1	<i>Astrobiology</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	Q2	30	15	-	5
GEOL0224-2	<i>Paleoclimatology</i> - [1d FW] (Odd years)	Q1	15	15	[+]	4
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> (Odd years)	Q2	30	-	-	4

#### Geological processes

GEOL0319-1	<i>Geological hazard and risk assessment, From theory to field work</i> (english language) - HansBalder HAVENITH - [2d FW]	Q2	25	10	[+]	4
GEOL0213-1	<i>Geodynamics</i> - Bernard BINGEN <b>Corequisite :</b> GEOL0209-1 - Géochimie isotopique et géochronologie	Q2	15	-	-	3
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [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</i> (english language) - 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) <b>Corequisite :</b> GEOL0209-1 - Géochimie isotopique et géochronologie	Q2	20	30	-	5
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	Q2	15	15	-	4
GEOL0303-1	<i>Geomagnetism and environmental magnetism</i> (english language) - AnneChristine DA SILVA (Even years)	Q2	15	5	-	3
GEOL1030-1	<i>Meteoric palaeoweathering</i> - [1d FW] (Odd years)	Q2	12	12	[+]	3

[...] 1 or 2 course(s) from the courses' programme of the University of Liege

#### Block 2

##### Compulsory courses

SMEM0022-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	27
GEOL0318-1	<i>Geocommunication</i> - Annick ANCEAU, COLLÉGIALITÉ <b>Corequisite :</b> SMEM0022-1 - Mémoire	Q1	20	-	-	3

##### Focus courses

###### Single focus

###### Research Focus

SSTG0011-1	<i>Work placement</i> - COLLÉGIALITÉ, Valentin FISCHER - [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)**

**Optional courses**

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

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