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## First Year

### Compulsory courses

GEOL0210-1	<i>Fieldwork in foreign countries</i> - Frédéric BOULVAIN, Nathalie FAGEL, Frédéric HATERT, HansBalder HAVENITH, Emmanuelle JAVAUX, N..., Jacqueline VANDER AUWERA - Suppl : Camille FRANÇOIS - [10d FW]	Q2	-	-	[+]	6
GEOL0301-1	<i>Cartography and geomodelling (personnal work)</i> - HansBalder HAVENITH - [15dTA FW]		10	30	[+]	10
GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	Q2	15	15	-	3
GEOL1022-2	<i>Evolution of the biosphere in the Precambrian</i> - Emmanuelle JAVAUX	Q1	20	10	-	3
GEOL0099-1	<i>Phanerozoic biosphere evolution</i> - N... - Suppl : Valentin FISCHER - [2d FW]	Q1	20	-	[+]	4
GEOL1027-1	<i>Analytical mineralogy</i> - Frédéric HATERT	Q2	15	15	-	3
GEOL0209-1	<i>Isotopic geochemistry and geochronology</i> - Jacqueline VANDER AUWERA	Q1	20	-	-	3
GEOL0282-1	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	Q1	20	20	-	4
GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology</i> (english language) - HansBalder HAVENITH - [2d FW]	Q1	25	15	[+]	4

### Optional courses

Choose courses, with the approval of the Jury, totalling 20 credits amongst :

#### Course held in even years (2014-2015)

GEOL0296-1	<i>Clays and environment</i> - Nathalie FAGEL (Even years)	Q1	15	15	-	4
GEOL0263-1	<i>Astrobiology</i> - Philippe CLAEYS, Véronique DEHANT, Moreno GALLEN, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	Q2	30	15	-	5
GEOL0302-1	<i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years)	Q2	20	30	-	5
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	Q2	15	15	-	4
GEOL0306-1	<i>Techniques for extracting non-conventional hydrocarbons</i> - Xavier LIMPENS (Even years)		15	-	-	3
GEOL0303-1	<i>Geomagnetism and environmental magnetism</i> (english language) - AnneChristine DA SILVA	Q2	15	5	-	3

#### Courses held in odd years (2015-2016)

GEOL0224-2	<i>Paleoclimatology</i> - Nathalie FAGEL - [1d FW] (Odd years)	Q1	15	15	[+]	4
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)		30	-	-	4
GEOL0220-1	<i>Cainozoic Stratigraphy</i> - Emile ROCHE (Odd years)		15	-	-	3
GEOL1030-1	<i>Meteoritic palaeoweathering</i> - Johan YANS - [1d FW] (Odd years)		12	12	[+]	3

#### Courses organized each year :

GEOL0305-2	<i>Paleoecology</i> - N... - [1d FW]		20	-	[+]	3
GEOL0221-1	<i>Quaternary Palynology</i> - N... - Suppl : Mona COURTPICON		15	15	-	4
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [1d FW]	Q2	15	8	[+]	3
SPAT0027-4	<i>Climate change and impacts</i> - Louis FRANÇOIS, Guy MUNHOVEN	TA	15	15	-	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
OCEA0082-4	<i>Carbon, nutrient, greenhouse gases dynamics in marine ecosystems and geological oceanography, Geological oceanography</i> (english language) - Nathalie FAGEL - [1d FW]	Q1	20	20	[+]	4
GEOL0225-3	<i>Analytical Geochemistry</i> - Nathalie FAGEL	Q1	10	10	-	3
GEOL0256-1	<i>Geochemistry of sediments and interstitial water</i> - Nathalie FAGEL	Q1	15	15	-	4
GEOL0213-1	<i>Geodynamics</i> - N... - Suppl : Bernard BINGEN		15	-	-	3
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	Q2	15	-	-	3
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications</i> - N... - Suppl : Michel EVERAERTS		15	15	-	4
GCIV0620-1	<i>Introduction to geotechnics</i> - Robert CHARLIER, JeanPol RADU - [1d FW]	Q1	30	20	[+]	5
GEOL0020-6	<i>Mineral resources</i> (english language) - Eric PIRARD		30	30	-	5
MINE0005-1	<i>Mine and Quarry Working</i> - Jacques TACK		20	-	-	3
GEOL0313-1	<i>Remediation of contaminated sites</i> - Serge BROUYÈRE - [2d FW, 40h Proj.]	Q1	24	24	[+]	4
GEOL0023-2	<i>Engineering geology (integrated project)</i> - Frédéric NGUYEN - [3d FW]	Q1	25	25	[+]	5

GEOL1021-1	<i>Introduction to geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN	Q2	30	30	[+]	<b>6</b>
	- [5d FW]					
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [5d FW, 80h Proj.]	Q2	8	20	[+]	<b>5</b>
GEOL0298-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE, Philippe ORBAN	Q1	15	15	-	<b>4</b>
GEOL0083-3	<i>Groundwater modelling</i> (english language) - Alain DASSARGUES - [30h Labo., 30h Proj.]	Q1	30	-	[+]	<b>5</b>
GEOL0307-1	<i>Geology of hydrocarbons</i> - Pierre CORNET		20	20	-	<b>4</b>
SPOL2209-3	<i>Environmental and land policies</i> - Quentin MICHEL - Suppl : Sophie HANSON	Q1	30	-	-	<b>3</b>
GEOL0308-1	<i>Environmental geology related to renewable energy resources and mining</i> (english language) - HansBalder HAVENITH - [1d FW]	Q2	20	10	[+]	<b>3</b>
GEOL0309-1	<i>Assessment of geological risk</i> (english language) - HansBalder HAVENITH - [6d FW]	TA	30	15	[+]	<b>5</b>
GEOL0236-2	<i>Remote sensing and geological imaging</i> - Eric PIRARD - [50h Proj.]	Q1	30	10	[+]	<b>5</b>
[...]	1 or 2 course(s) from the courses' programme of the University of Liege					

## Second Year

### Compulsory courses

SMEM0022-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	<b>27</b>
GEOL0268-2	<i>Introduction to Research</i> - Annick ANCEAU	Q1	20	20	-	<b>3</b>

### Research Focus

#### Compulsory course

SSTG0011-1	<i>Placement</i> - N... - Suppl : HansBalder HAVENITH - [4w Internship]		-	-	[+]	<b>10</b>
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#### Optional courses

Choose courses, with the approval of the Jury, totalling 20 credits among :

- [...] Choose additional courses not previously followed and totaling from 11 to 20 ECTS from the courses programme of the ULg
- [...] Maximum 9 ECTS can be chosen in the courses' programme of another university